overly

1960 EDITION

16b
Ov

Overline

HOLLOW METAL DOORS, FRAMES AND ENTRANCES

A. I. A. File Nos. 16-A; 16-B

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overly labeled

Overly pioneers major advances in Underwriters' labeled products

Our comprehensive testing program at Underwriters' Laboratories, which now includes five major tests, began in 1958 and will continue indefinitely. The Underwriters' Laboratory tests combined with factory inspection service assures that doors "labeled" are constructed identically to the models tested.

Our program has three general aims: (1) to reduce the cost of labeled products, yet maintain required performance; (2) to expand the scope of protection from the passage of fire, smoke and fumes through openings; (3) to eliminate obstacles to the use of labeled products.

the need for change

Testing standards were set for the industry about a half-century ago and still persist. Hollow metal doors, frames, and hardware used in early tests were over-designed, regardless of cost, to insure successful testing. Exploration of further uses for labeled pressed steel frames was neglected and three distinct types of uneconomical construction were required for A, B and non-labeled doors.

Overly develops practical standards

By a series of successful tests, Overly upset the old standards and received authorization from Underwriters' Laboratories for labeling of realistically constructed Overly hollow metal doors and frames. Overly is the first manufacturer of hollow metal products to receive this approval. All other manufacturers who have not successfully made these tests must still follow the older Underwriters' standards. As a result, their products are usually more costly than Overly's.

One of the major achievements of our testing program has been to reduce the cost of Class A installations by proving that special constructions and hardware were unnecessary to achieve required UL performance. As a result of our tests, we have now been authorized to apply the 3 Hr (A) label to our 18 gage doors. Single doors not over 3′0″ x 7′0″ or pairs up to 6′0″ x 7′0″ may use standard listed key-in-knob or mortise locks having a ¾″ throw, standard weight butts, and top and bottom bolts on inactive leaf of pairs. This hardware replaces costly 3- and 2-point locks and extra heavy butts. Overly has received approval for the use of single astragals instead of double astragals.

Our next research step in the 3 Hr (A) label area was to successfully test a 16 gage frame with ⅝″ high stops. As a result, 14 gage frames with ¾″ stops need not be specified, except for single doors over 3′6″ x 7′6″ and for pairs over 6′0″ x 7′6″. The tests have further reduced design inconsistencies and costs.

Overly also has pioneered in proving that 20 gage hollow metal doors are adequate for fire protection. Our standard non-labeled door, packed with insulation,

door and frame data

was tested successfully and we are now permitted to apply 1½ Hr (B), 1½ Hr (D), ¾ Hr (C) and ¾ Hr (E) labels to these doors.

Our tests have resulted in identical design and internal reinforcement for non-labeled, A-labeled and B-labeled doors except that 3 Hr (A) label doors require heavier 18 gage steel. A single set of specifications now covers both labeled and non-labeled doors, except for 3 Hr (A) label. These products are available in all gages from standard 18 and 20 gage for conventional use, down to 10 and 12 gage for prison and security type doors.

design advantages in frames

Overly has also had a program to increase the design possibilities of labeled pressed steel frames, previously limited to the three-sided type. The new Overly Fire Barrier designs have met with the requirements of municipal building codes and fire insurance rating regulations.

Our labeled service has been expanded to permit use of frames with side lights and glazed transoms in situations where 45 minutes of fire resistance is required. (Statistics indicate that any type of building can be evacuated in much less than 45 minutes.) These frames may contain an opening for a door or pair of doors up to 3′6″ x 7′0″ for single doors and 7′0″ x 7′0″ for a pair of doors. Sidelights up to 30″ wide may be used on one or both sides with or without transoms up to 4′0″ in height. Labeled doors complete the installation.

These Overly Fire Barriers are specifically designed for dividing long corridors in hospitals, schools, institutions and other public buildings. Labeled Fire Barriers are highly desirable because they divide long corridors and provide isolated refuge areas. Their maximum opening size permits the passage of a hospital bed and two attendants, a special advantage where non-ambulatory patients are confined. These labeled dividers act as panic deterrents and may be used as stairwell enclosures where the fire resistance required is 45 minutes.

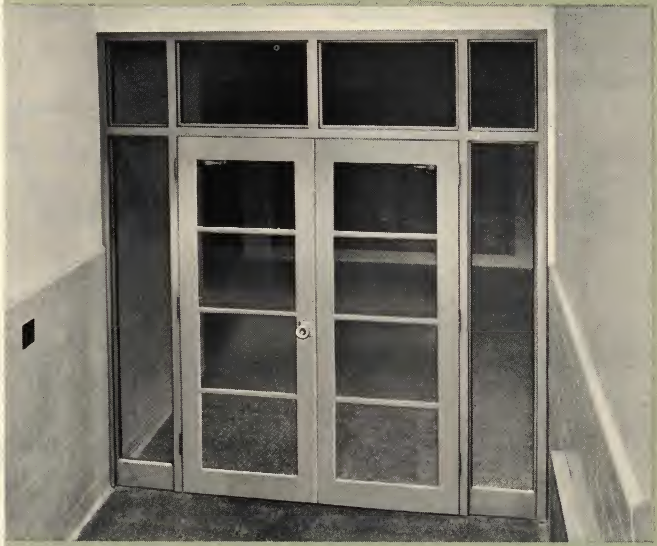
Overly frames with removable mullions have been approved for label service involving 1½ hours of fire resistance. Their use will permit exit devices where they would not be approved in pairs. The removable mullions also permit the passage of large equipment.

Complete data on labeled doors, frames, and hardware for labeled doors and frames, is given in the Overly "Fire Doorater" on page 11.

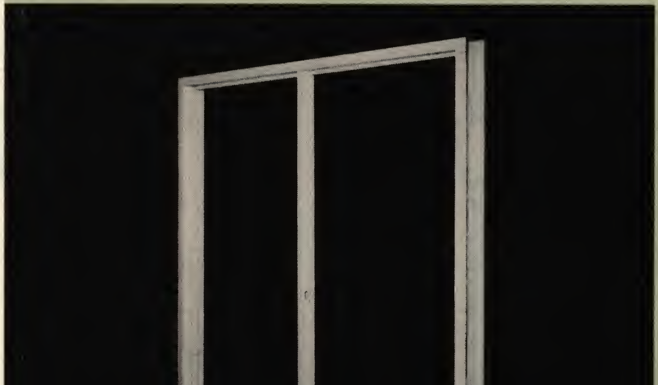
Overly sets future standards

Overly has worked with the American Society for Testing Materials and the National Fire Protection Association in the more realistic development of label requirements and regulations. The latter organization adopted a complete revision of Regulations for Installation (Pamphlet 80) in 1959. Our specifications in this catalog incorporate these innovations and we recommend them to architects as a guide for future hollow metal door and frame specifications.

Pair of Overly Type 50 doors can bear A, B, C, D or E labels—3 pt. lock not required for A labeled doors up to 6′0″ x 7′0″. Overly non-labeled doors are identical in construction except that they are filled with fiberboard instead of insulation.



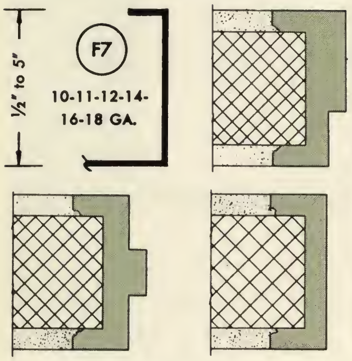
Corridor smoke screen with ¾ HR (C) label; suitable for use in hospitals, schools, institutional and public buildings. Individual glass lights limited to 1296 sq. inches exposed area. Total assembly may have transoms up to 48″ high, side lights up to 30″ wide and doors up to 7′0″ x 7′0″.

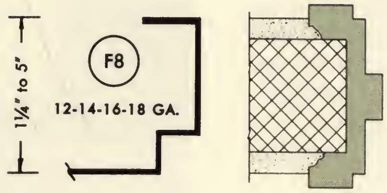


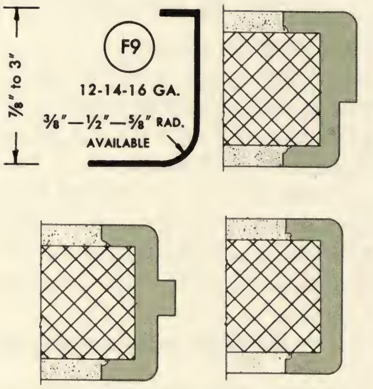
Frame assembly with removable mullion. Purpose of this mullion is to permit installation of pairs of doors with panic devices. Present UL procedures require that every labeled door be mortised for a locking device. Removable mullion permits installation of two mortised panic devices in a UL approved assembly. The removable feature allows unrestricted passage of large equipment.

profiles

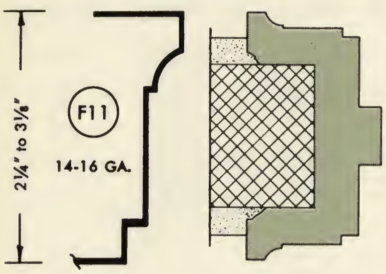
plain trim DO NOT SCALE

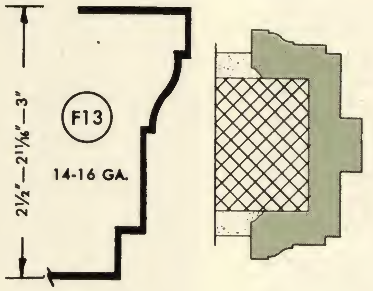


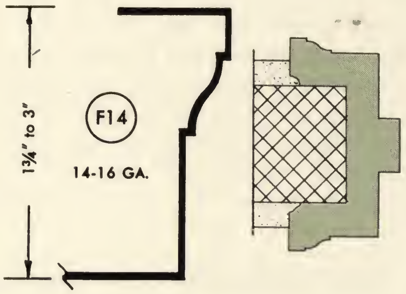


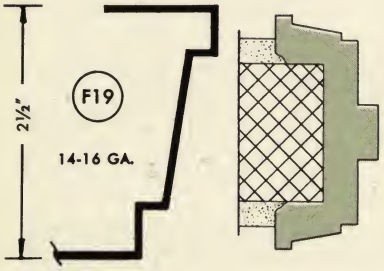


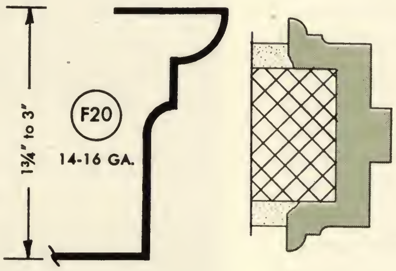
molded trim DO NOT SCALE

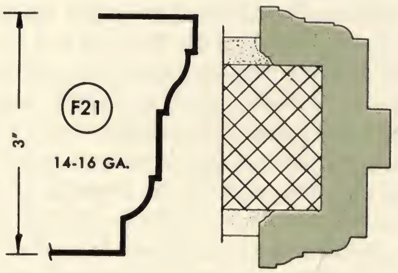


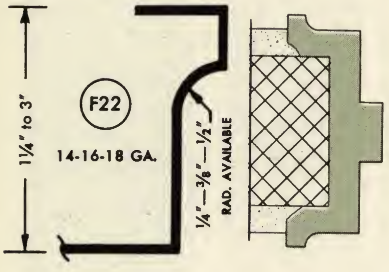


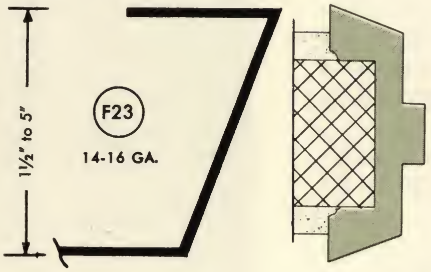


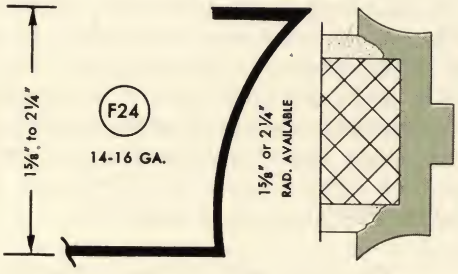


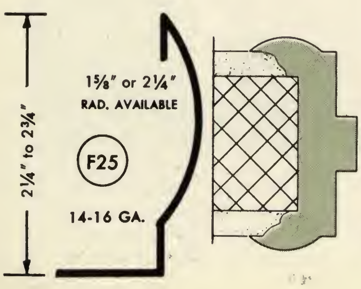


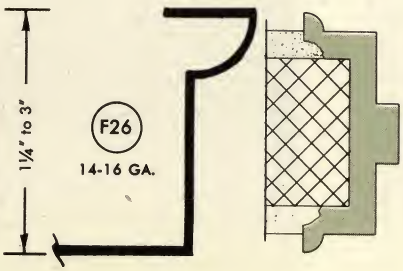




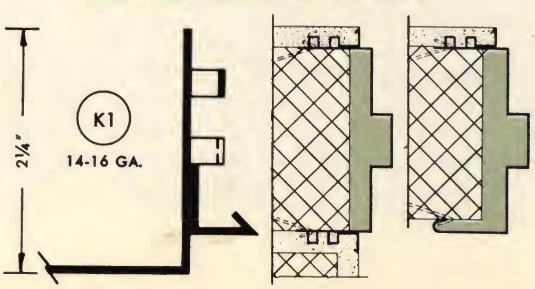






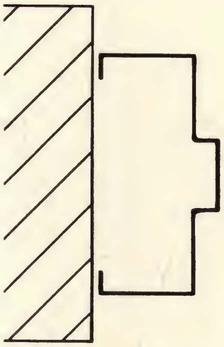


kalman trim DO NOT SCALE



door frames

plaster keys available only with plain trim DO NOT SCALE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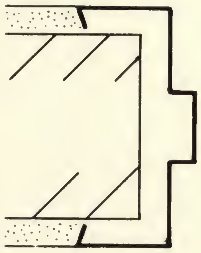
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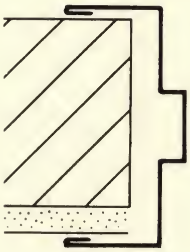
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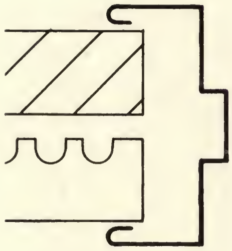
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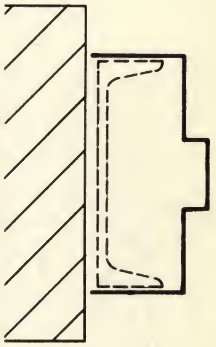
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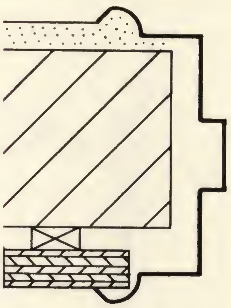
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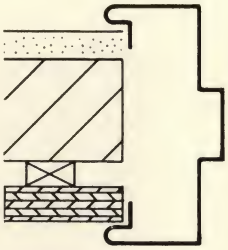
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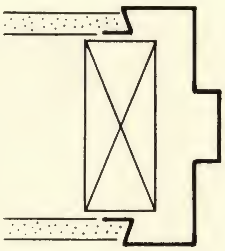
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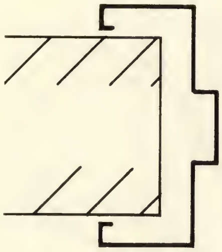
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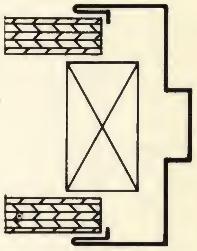
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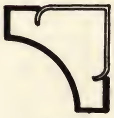
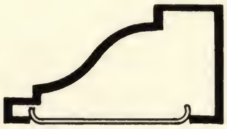
hollow metal molding and trim DO NOT SCALE



3000



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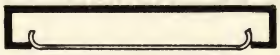

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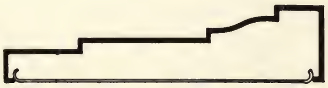

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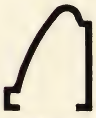

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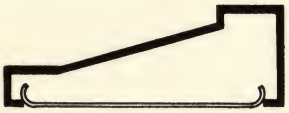

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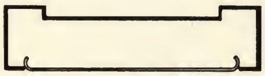
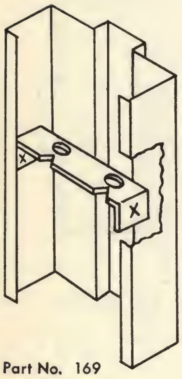


3006

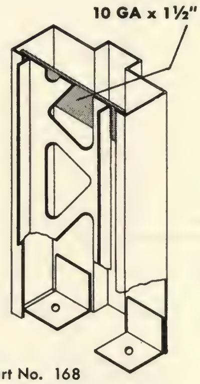
Note: Molding can be furnished snap-on or screw on as desired—specify which.

special construction details

methods of anchoring frames

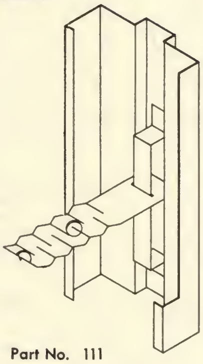

Part No. 169

STEEL STUD ANCHOR

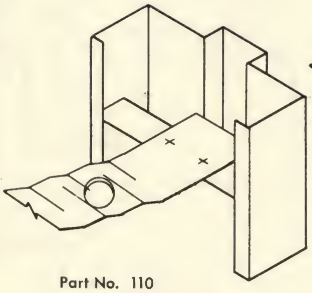


Part No. 168

STEEL STUD ANCHOR DESIGNED FOR TACK WELDING TO STEEL STUD


Part No. 111

ADJUSTABLE YOKE ANCHOR (approved by Underwriters' Laboratories)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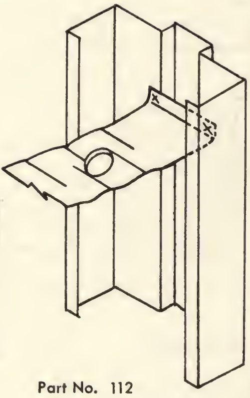
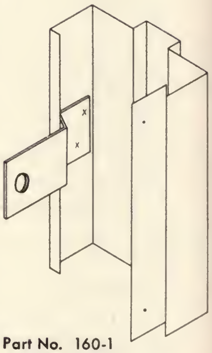
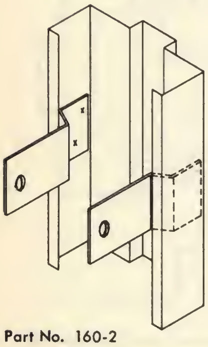
ADJUSTABLE LOOSE T ANCHOR


Part No. 112

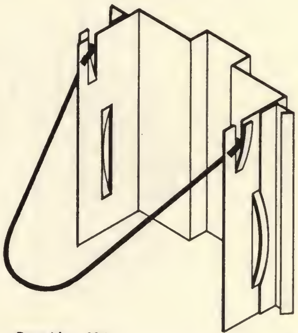
POURED CONCRETE WALL FIXED ANCHOR


Part No. 160-1

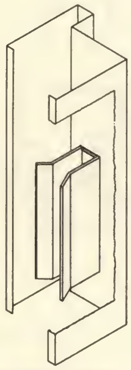
NAILING CLIPS FOR METAL FRAMES IN WOOD PARTITIONS WHERE HOLLOW METAL DOORS ARE REQUIRED. NAILING CLIP STRIP IS CONTINUOUS ON HINGE SIDE.


Part No. 160-2

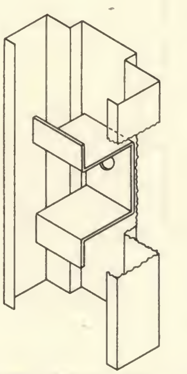
NAILING CLIPS FOR METAL FRAMES IN WOOD STUD PARTITIONS WITH WOOD DOORS


Part No. 116

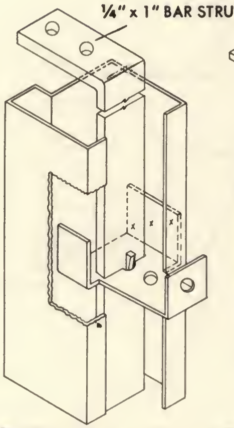
WIRE ANCHOR FOR KALMAN FRAMES


Part No. 117

ROCK LATH RECEIVING CLIP FOR MEMBRANE WALLS (Struts to ceiling not required)

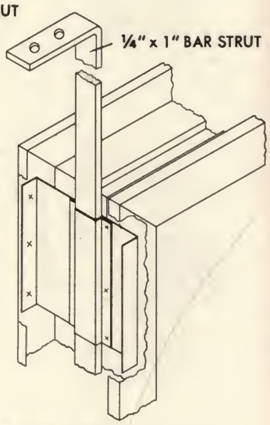

Part No. 118

SPACER YOKE TO RECEIVE EXPANSION SHELLS— WHEN INSTALLATION IS REQUIRED IN EXISTING WALLS



Part No. 115

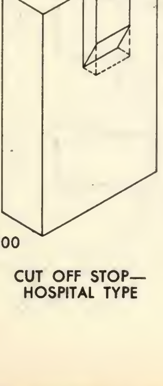
ADJUSTABLE CEILING STRUTS AND ANCHOR FOR 2" PLASTER PARTITIONS AND FRAMES



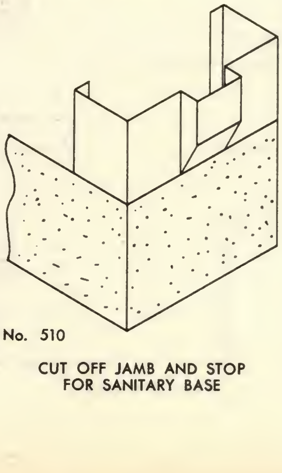
Part No. 119

ADJUSTABLE CEILING STRUTS AND HOLDER FOR WALLS AND FRAMES OVER 2"

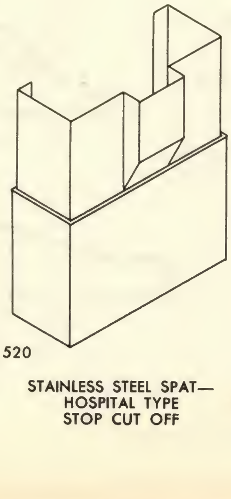
jamb base construction details


Part No. 500

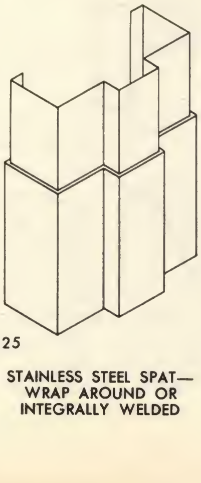
CUT OFF STOP— HOSPITAL TYPE


Part No. 510

CUT OFF JAMB AND STOP FOR SANITARY BASE


Part No. 520

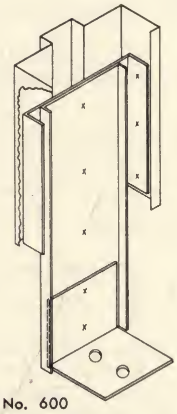
STAINLESS STEEL SPAT— HOSPITAL TYPE STOP CUT OFF


Part No. 525

STAINLESS STEEL SPAT— WRAP AROUND OR INTEGRALLY WELDED

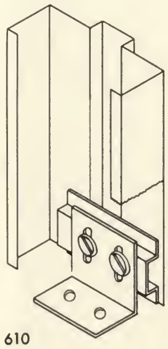
details — isometric views

jamb base construction details (cont'd)



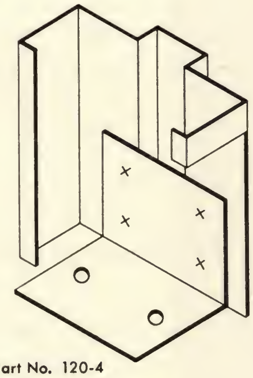
Part No. 600

STILTS



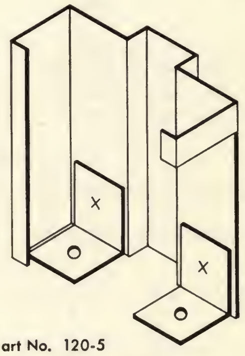
Part No. 610

ADJUSTABLE FLOOR CLIPS
(approved by
Underwriters' Laboratories)



Part No. 120-4

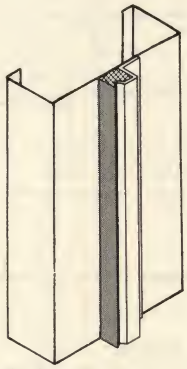
STANDARD FLOOR CLIP
(approved by
Underwriters' Laboratories)



Part No. 120-5

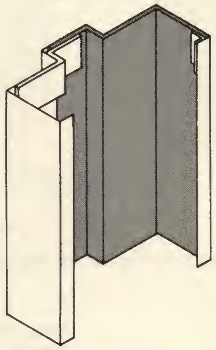
STANDARD NON-LABELED
FLOOR CLIP

typical general construction details



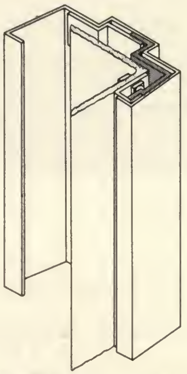
Part No. 190

RUBBER GASKET



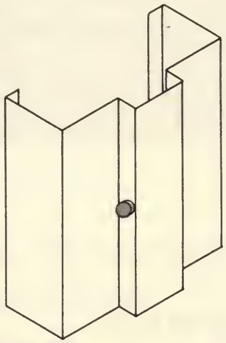
Part No. 700

LEAD LINING



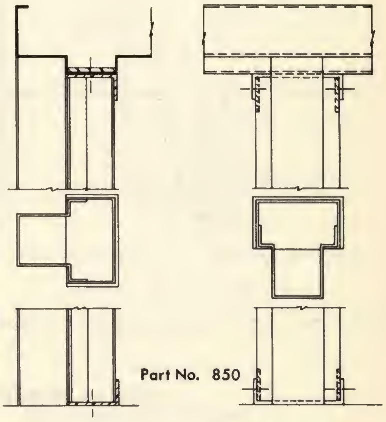
Part No. 725

LEAD LINED FRAME
WITH FLOOR TO CEILING
ANGLE REINFORCING STRUTS
TO CARRY EXTRA HEAVY
LEAD LINED DOOR



Part No. 800

RUBBER BUMPER
(approved by
Underwriters' Laboratories)

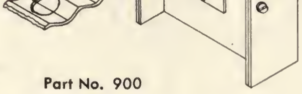


Part No. 850

SIDE VIEW

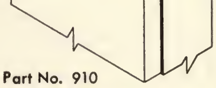
FRONT VIEW

REMOVABLE MULLION
(approved by
Underwriters' Laboratories)



Part No. 900

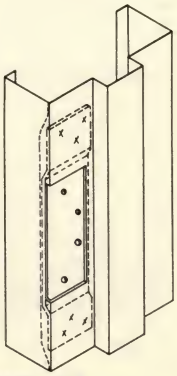
ROUGH BUCK AND CABINET
JAMB FOR
NEW CONSTRUCTION
(approved by
Underwriters' Laboratories)



Part No. 910

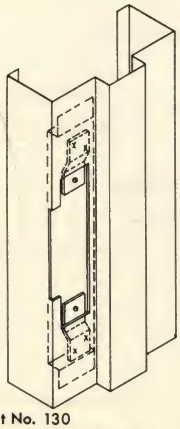
ROUGH BUCK FOR EXISTING
MASONRY OPENING
(approved by
Underwriters' Laboratories)

typical reinforcements



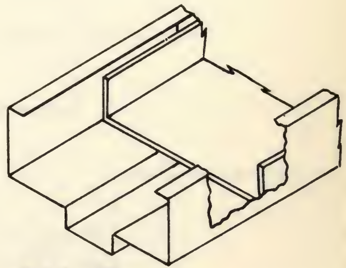
Part No. 101-5

HINGE
REINFORCEMENT
$\frac{3}{16}$" min.



Part No. 130

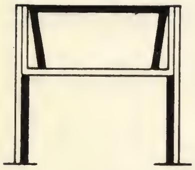
LOCK STRIKE
REINFORCEMENT
$\frac{1}{8}$"



Part No. 950

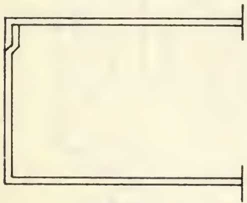
12 GAUGE HEAD REINFORCING—
FURNISHED ONLY WHEN SPECIFIED

overly *Overline* hollow metal and

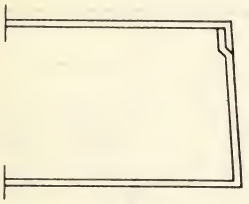


A-A
TOP EDGE CHANNEL (INVERTED) AND 12 GA. BOX CLOSER REINFORCEMENT

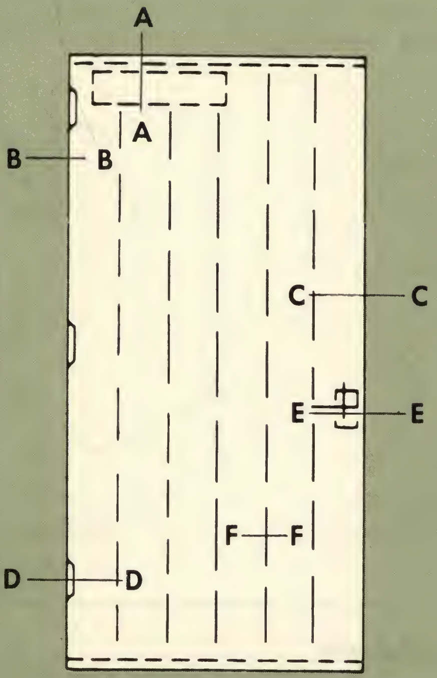
NOTE: Top closing channel only furnished on exterior doors.



B-B
HINGE EDGE OF DOOR WELDED AND GROUND SMOOTH

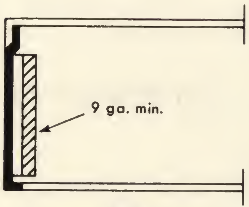


C-C
LOCK EDGE OF DOOR WELDED AND GROUND SMOOTH

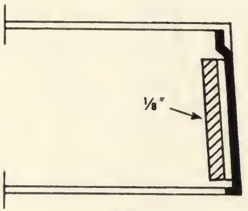


new Overly labeled and non-labeled door construction

NOTE: Labeled and non-labeled doors are insulated with mineral wool.

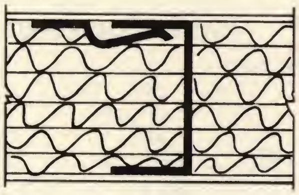


D-D
HINGE MORTISE AND REINFORCEMENT



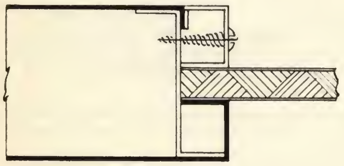
E-E
LOCK MORTISE AND REINFORCEMENT

NOTE: For key-in-knob type locks, hardware contractor should furnish lock manufacturer's standard reinforcing box.

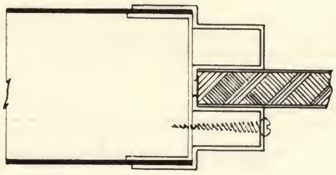


F-F
TYPICAL CHANNEL STIFFENER AND CLIP

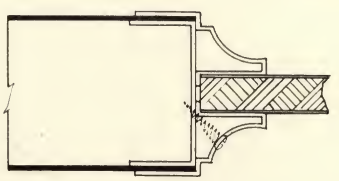
glass molding details



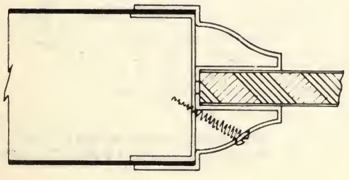
1000



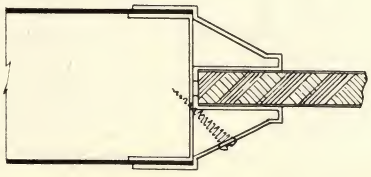
1001



1002

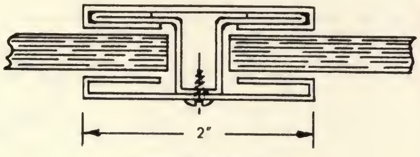


1003

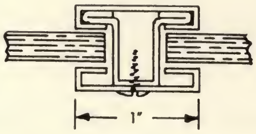


1004

muntin bars



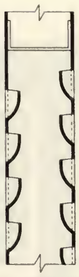
1005 (LABELED)



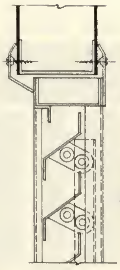
1006

kalamein door construction details

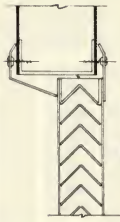
louvers


2,000
20%
free air

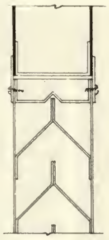
STANDARD PIERCED LOUVER


2,001
37%
free air

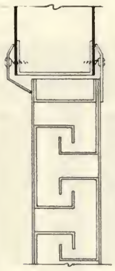
ADJUSTABLE LOUVER


2,002
65%
free air

STATIONARY LOUVER


2,003
30%
free air

STATIONARY LOUVER


2,004
20%
free air

LIGHT PROOF LOUVER

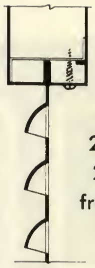
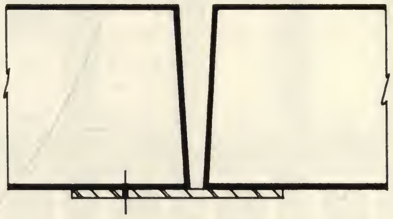
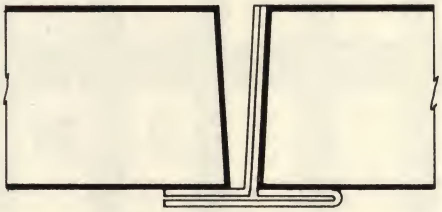

2,005
20%
free air

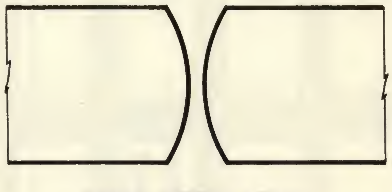
PLATE LOUVER

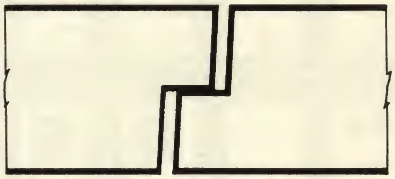
astragals


STANDARD ASTRAGAL
(Approved for A, B, C, D, or E labeled pairs. Astragal not furnished for non-labeled pairs unless specified.)

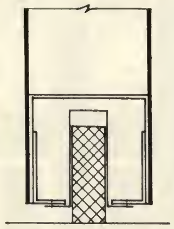

"T" ASTRAGAL

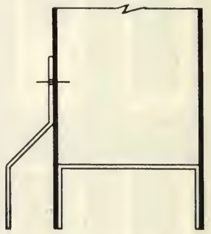
special stile constructions

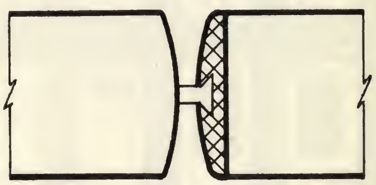

RADIUS MEETING STILES—DOUBLE ACTING


RABBETTED MEETING STILES

special details

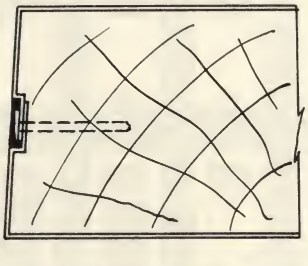

AUTOMATIC DOOR BOTTOM

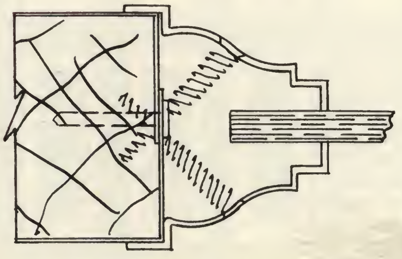

DRIP MOLD
(Ends Closed)


FELT PILE WEATHERSTRIPPING

kalamein door construction

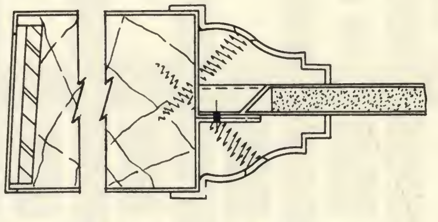
non-labeled flush

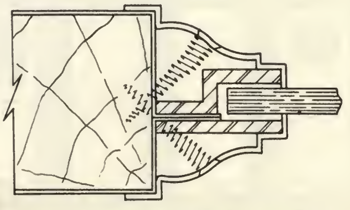

EDGE CONSTRUCTION


GLASS LIGHT CONSTRUCTION

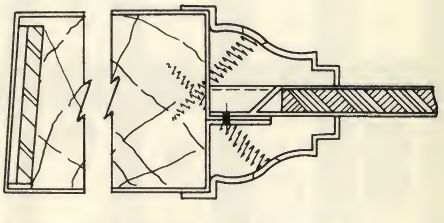
labeled panel

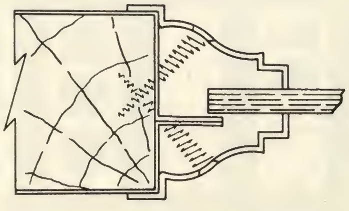
(approved by Underwriters' Laboratories)


STILE AND PANEL CONSTRUCTION


GLASS LIGHT CONSTRUCTION

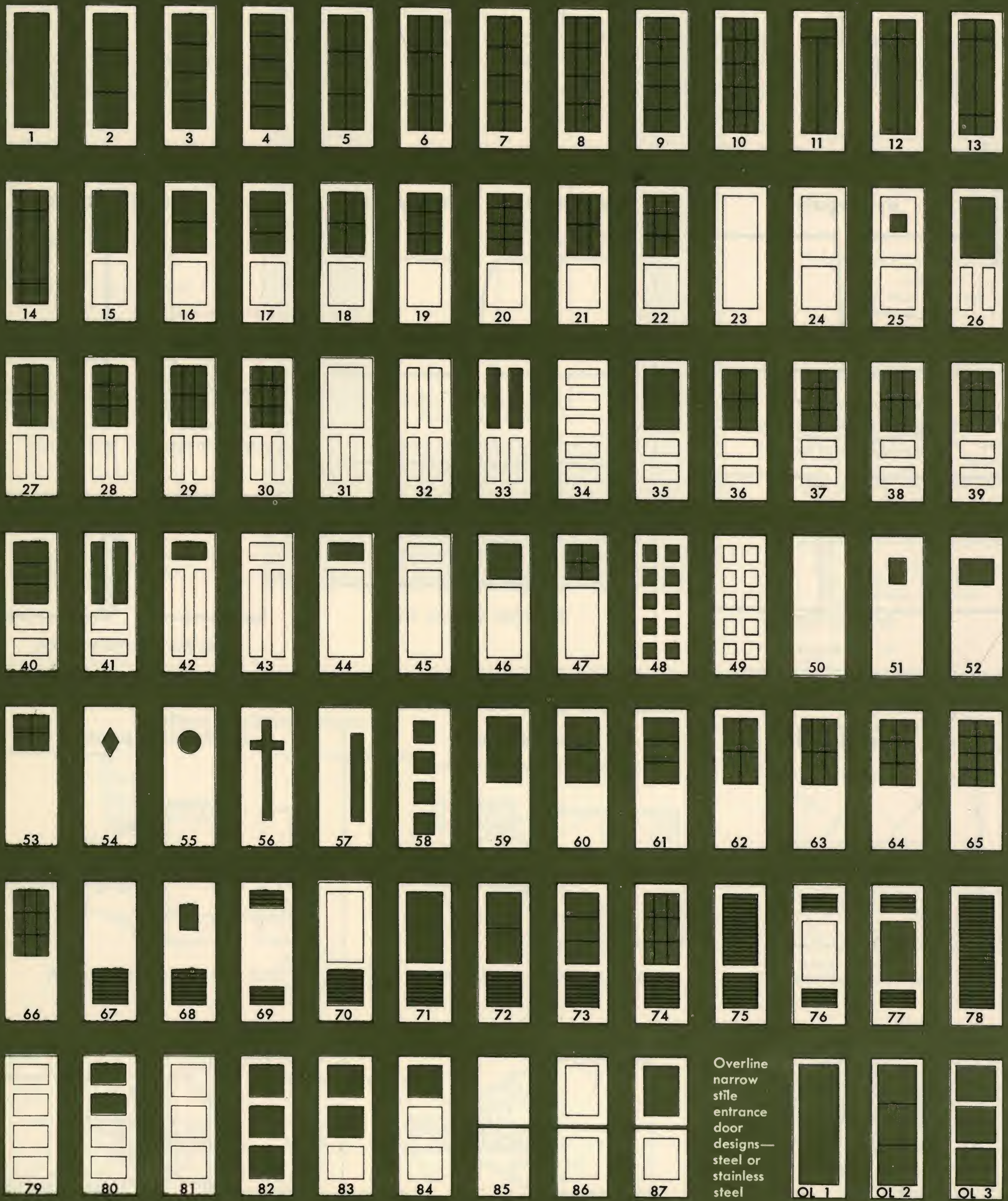
non-labeled panel


STILE AND PANEL CONSTRUCTION


GLASS LIGHT CONSTRUCTION

overly standard door designs

Overline hollow metal, kalamein and entrance doors



Overline narrow stile entrance door designs—steel or stainless steel

Note: Doors that may be labeled are listed on page 11 opposite the appropriate label classifications.

swinging hollow metal fire doors

maximum size: single doors 4′0″x8′0″, pairs 8′0″x8′0″
minimum gage: A labeled 18 ga.; B, C, D, E label 20 ga.

Opening location and rating	Overly door type and maximum glass area
Firewalls or division walls between buildings or sections of buildings **3 Hr. (A) label** Note: Mount two doors; required—mount one each face of wall to avoid insurance rate charge.	Type 50 *no glass permitted.*
Vertical shaft enclosures for stairs, elevators, piping or wiring **1½ Hr. (B) label**	Types 23, 24, 25, 31, 32, 34, 43, 45, 49, 50, 51, 57, 79, 81. *Maximum area of exposed glass 100 sq. in. per opening (not per leaf).* Glass may be divided between leaves of pairs. Min. width 3″, Max. width 10″, Max. height 35″.
Corridor and room partitions **¾ Hr. (C) label**	Types 1 through 66 and 79 through 84. Maximum area of exposed wire glass 1296 sq. in. per light (any number per leaf).
Exterior walls subject to severe hazard exposure **1½ Hr. (D) label**	Types 23, 24, 25, 31, 32, 34, 43, 45, 49, 50, 79 and 81. *No glass permitted.*
Exterior walls subject to light hazard exposure **¾ Hr. (E) label**	Types 2 through 66 and 79 through 84. *Maximum area of exposed wire glass 720 sq. in. per light (any number per leaf).*

hollow metal frames

Labeled frames must be used with all labeled doors. Frames are not classified by location of opening. The following applies to all class A, B, C, D or E situations.

Minimum jamb depth—4″
Minimum stop height—⅝″
Maximum door opening size and minimum gauge:

	Size	Gauge
Single—	3′6″ x 7′6″	16 ga.
	4′0″ x 10′0″	14 ga.
Pairs —	6′0″ x 7′6″	16 ga.
	8′0″ x 10′0″	14 ga.

FIRE BARRIERS WITH TRANSOMS AND SIDELIGHTS

Overly may label for 45 minutes of fire resistance within the size limitations charted below:

	Width	Height
Overall Size	12′8″	11′4″
Door Openings		
Singles	3′6″	7′0″
Pair	7′0″	7′0″
Transom—Wire Glass		
Height	*	4′6″
Sidelights—Wire Glass		
Height	2′6″	*
Sidelight Base Panels		
Minimum	*	6″
Maximum	*	3′6″

*Dimension varies—limited by overall unit sizes.

LABELED FRAME ACCESSORIES

Preparation of both doors and frames for floor checks, and top and intermediate pivots.

Labeled rough bucks and cabinet jambs for use in existing openings or where job progress demands that wall construction proceed before frames can be delivered.

Labeled frames prepared for GJ # 64 rubber bumpers.

Labeled frames with adjustable floor clips.

Removable mullion frames.

CHANNEL FRAMES:
Minimum width rolled steel channels—4″.

ANGLE IRON FRAMES:
Cannot be labeled.

hardware for labeled doors and frames

All labeled fire doors must be provided with latching devices or locks, hinges, and closers listed by Underwriters' Laboratories. Latches and hinges for Class A doors must be applied at the factory.

LATCHING DEVICES:

Single Class A doors up to 3′0″ x 7′0″ and pairs up to 6′0″ x 7′0″ and all other labeled free doors must be provided with listed mortise or key-in-knob type latches or locks. For larger Class A doors listed 3 point locks are required for single doors and the active leaf of pairs; listed 2 point locks for the inactive leaf of pairs.

Latches for single A label doors and for all pairs shall have a minimum throw of ¾″; for all other single doors, the throw must be ½″.

Listed top and bottom flush bolts having a minimum throw of ¾″ may be used on the inactive leaf of pairs.

HINGES:

One required for each 30″ of door height or fraction thereof, as follows:

Label	Door Size	Weight	Min. Height	Min. Thickness
A	Up to 7′0″ in height	Standard	4½″	0.134″
B, C, D, & E	Up to 8′0″ in height	Standard	4½″	0.134″
A	Over 7′0″ in height	Extra Heavy	4½″	0.180″
B, C, D, & E	Over 8′0″ in height	Extra Heavy	4½″	0.180″
B, C, D, & E	Up to 3′0″ x 5′0″	Standard	4″	0.130″
B, C, D, & E	Up to 2′0″ x 3′0″	Standard	3½″	0.092″

Olive knuckle hinges having a minimum height of 6″ and a minimum thickness of 0.225″ and top, bottom and intermediate pivots having a minimum height of 4″ and a minimum thickness of 0.255″ may also be used on B, C, D, and E labeled doors.

Surface hinges must be applied with thru bolts.

tin clad fire doors

approved door constructions	number of doors per opening	labels authorized hours					maximum opening size			door thickness
		3	1½	¾	1½	¾				
		A	B	C	D	E	width	height	area	
Tin Clad, 3 Ply—Horizontally Sliding	Single	√	√	√	√	√	12′	12′	120 sq. ft.	2½″
	Pair	√	√	√	√	√	12′	12′	120 sq. ft.	
Tin Clad, 3 Ply—Vertically Sliding	Single	√	*	√	√	√	10′	10′	80 sq. ft.	
	Pair	NL	NL	NL	NL	NL	—	—	———	
Tin Clad, 3 Ply—Swinging	Single	√	√	√	√	√	6′	12′	72 sq. ft.	
	Pair	√	√	√	√	√	10′	12′	120 sq. ft.	
Tin Clad, 2 Ply—Horizontally Sliding	Single	NL	√	√	√	√	10′	10′	80 sq. ft.	1¾″
	Pair	NL	NL	NL	NL	NL	—	—	———	
Tin Clad, 2 Ply—Swinging	Single	NL	√	√	√	√	6′	10′	60 sq. ft.	
	Pair	NL	√	√	√	√	10′	10′	100 sq. ft.	

√ = Approved NL = Not Labeled * May be labeled except in required means of exit.

channel iron frames

Required for flush mounted swing doors only.

Rolled steel channels minimum width—4″.

Frames not required for lap mounted swing or sliding doors.

Angle iron frames cannot be labeled.

tinclad fire door hardware

For Swinging Doors labels are applied to each hinge strap, hinge bracket, connecting bar, latch catch, top and bottom bolt and keeper.

For Horizontally Sliding Doors one label is applied to each hanger, binder, bumper, flush pull, stay roll, and two to each track section.

For Vertically Sliding Doors labels are applied to each track section, track guide, cable bracket and cable pulley. Other accessory items of hardware are not labeled.

general information

labeled doors and frames

- Fire doors are either self-closing or automatic closing. Self-closing fire doors are normally provided with standard door closers or an arrangement of weights which return the door to a closed position after each use. Automatic closing doors are equipped in a similar fashion and have in addition a hold-open device with a fuseable metal link which will automatically close the door in case of fire. Self-closing is preferred, and is mandatory in a required means of exit. Automatic doors are approved for all openings except for the above.
- Latches or locks are required on labeled doors (push-and-pull bars are not acceptable); factory mortising and reinforcing are required.
- Anti-panic devices may be mandatory in a required means of exit. Such devices must bear both U/L Fire Protection equipment and casualty and accident division labels.
- Double-acting doors or louvered doors cannot bear labels.
- Astragals—all pairs of labeled doors must be provided with a single astragal.

Requirements for hardware, doors and frames are subject to modification by local rating bureau and building code regulations.

oversize doors

Underwriters' Laboratories, Inc., will issue certificates of inspection for doors exceeding sizes listed as evidence that they comply with requirements for design material and construction; "Oversized Labels" are no longer furnished.

how to determine hand of doors

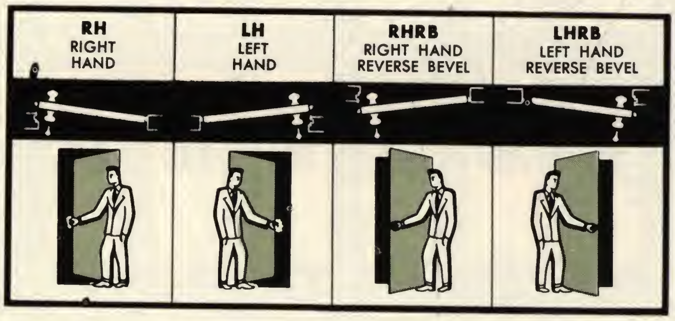
To ascertain door swing, it is important to first determine the key or locking side. Key side for doors into rooms is usually corridor side. Key side for stairwells is usually corridor side of main exit floors. For interior rooms, main room is usually key side for entrances to adjoining rooms. To determine key side for special locations it is suggested that you consult your hardware supplier or contractor.

Once key side is known, it is a simple matter to determine the swing of the door:

Facing door from key side, when door swings away from you to the right, it is a right hand swing; when it swings away from you to left, it is a left hand swing.

When door swings toward you to your right, it is a right hand reverse bevel swing; when it swings to your left, it is a left hand reverse bevel swing.

To ascertain swing of pairs of doors, simply determine swing of active leaf (door with key).



hardware location dimensions

(These dimensions are a general guide in the absence of other specifications.)

Distance from Floor to Center Line of . . .

☐ Store Door Thumb Piece—39″
☐ Door Pull Grip—42″
☐ Center of Push Plate—50″
☐ Door Knob—38″
☐ Cylinder Dead Lock—52″
☐ Push and Pull Bars (1)—45″
☐ Push and Pull Bars (2)—42″
☐ Push and Pull Bars (3)—45″
☐ Hospital Roller Latch—38″
☐ Vertical Letter Box Plate—30″
☐ Exit Bolt Cross Bar—38″
☐ Hospital Arm Pull:
  Double Base Type Lower Base —47″
  Single Base Type—47″

location of hinges

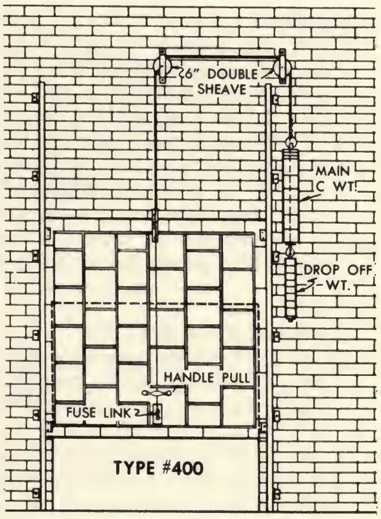
Bottom Hinge: Finished Floor to Bottom of Hinge—10″
Top Hinge: Head Rabbet to Top of Hinge—5″
Center Hinge: Equal Distance between Top and Bottom Hinges

overly tin clad fire door assemblies

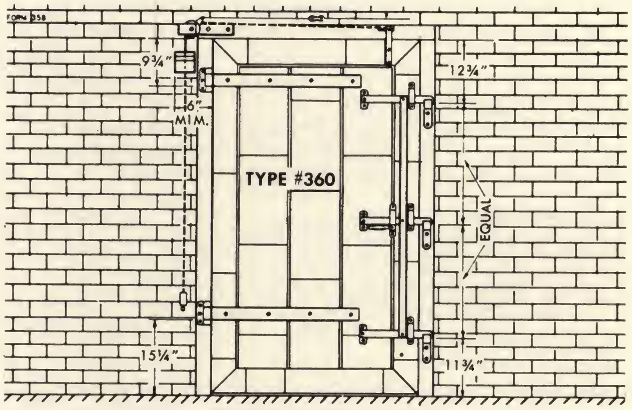
vertical sliding

NO. 400—Vertical slide Tin Clad Doors with automatic closing device for doors weighing less than 200 lbs. Minimum operating space—twice opening height plus 21″.

NO. 401—Vertical slide Tin Clad Doors with automatic closing device for doors weighing 200 lbs. or more. Weights are divided and suspended on each side of door. Minimum operating space—twice opening height plus 21″.



swinging



NO. 355—Single lap swing Tin Clad Doors with self-closing device with wall plate. Minimum Headroom 8″. Minimum operating space—width of opening plus 13″.

NO. 350—Same as No. 355 without wall plate.

NO. 358—Single flush swing Tin Clad door with self-closing device for use with angle frame. Minimum Headroom 4″. Minimum operating space—opening width plus 8″.

NO. 360—Same as No. 358 except for use with channel iron frame.

NO. 365—Single flush swing Tin Clad Door with self-closing device for use in rabbetted wall with inverted angle frame. Minimum Headroom 4″. Minimum operating space—opening width plus 8″.

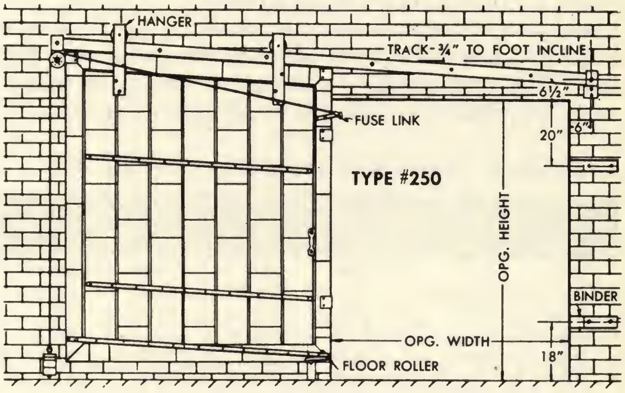
NO. 370—Pairs flush swing Tin Clad Doors with self-closing devices for use with angle frame. Minimum Headroom 4″. Minimum operating space—one-half opening width plus 8″ each side, per leaf.

NO. 380—Same as No. 370 except for use with channel frame.

NO. 375—Pairs lap swing Tin Clad Doors with self-closing devices with wall plate. Minimum Headroom 8″. Minimum operating space—one-half opening width plus 13″ each side, per leaf.

NO. 366—Same as No. 375 without wall plate.

inclined sliding



NO. 250—Single incline slide Tin Clad Door with automatic closing device having one fusible link in the opening. Minimum Headroom—see table on page 17. Minimum operating space—twice opening width plus 17″.

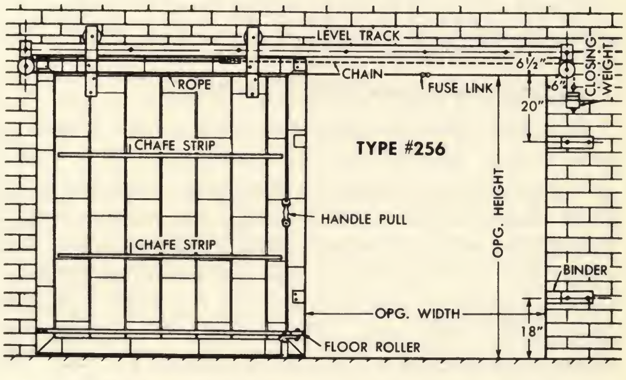
NO. 250A—Same as number 250 with weights compounded by means of pulley arrangement.

NO. 252—Single incline slide Tin Clad Door with automatic closing device having two fusible links and trigger (Indiana code). Minimum Headroom—see table on page 17. Minimum operating space—twice opening width plus 19″.

NO. 254—Single incline slide Tin Clad Door with automatic closing device having two fusible links. Minimum Headroom—see table on page 17. Minimum operating space—twice opening width plus 19″.

NO. 258—Pairs incline slide Tin Clad Doors with automatic closing device having one fusible link (each leaf) in the opening. Minimum Headroom—see table on page 17. Minimum operating space—one-half opening width plus 17″ each side, per leaf.

level sliding



NO. 256—Single level slide Tin Clad Doors with automatic closing device having one fusible link in the opening. Minimum Headroom 14″. Minimum operating space—twice opening width plus 14″.

NO. 255—Same as No. 256 except that a second fusible link and trigger device is provided at ceiling.

NO. 262—Single level slide Tin Clad Doors with automatic closing device having one fusible link in the opening for use when headroom is limited—underslung type. Minimum Headroom 7¾″. Minimum operating space—twice opening width plus 14″.

NO. 264—Single level slide Tin Clad Doors with automatic closing device having one fusible link in the opening for use when headroom is limited—angle track type. Minimum Headroom 11½″. Minimum operating space—twice opening width plus 14″.

NO. 260—Pairs level slide Tin Clad Doors with automatic closing device having one fusible link in the opening. Minimum Headroom 14″. Minimum operating space—one-half opening width plus 14″ each side of opening, per leaf.

tin clad fire door headroom schedules

Headroom Schedules

Since the track is inclined, the required headroom increases as width of opening increases. The clear wall spaces above lintel must be 13½" at low point of track. The pitch of track should be ¾" per foot. The table below shows the minimum headroom required for different width openings.

sliding fire doors with incline track: single slide

Width of Opening	Required headroom	Width of Opening	Required headroom	Width of Opening	Required headroom
2'0"	17"	6'0"	23"	10'0"	29"
2'4"	17½"	6'4"	23½"	10'4"	29½"
2'8"	18"	6'8"	24"	10'8"	30"
3'0"	18½"	7'0"	24½"	11'0"	30½"
3'4"	19"	7'4"	25"	11'4"	31"
3'8"	19½"	7'8"	25½"	11'8"	31½"
4'0"	20"	8'0"	26"	12'0"	32"
4'4"	20½"	8'4"	26½"	12'4"	32½"
4'8"	21"	8'8"	27"	12'8"	33"
5'0"	21½"	9'0"	27½"	13'0"	33½"
5'4"	22"	9'4"	28"	13'4"	34"
5'8"	22½"	9'8"	28½"	13'8"	34½"

sliding fire doors with incline track: double slide

Width of Opening	Required headroom	Width of Opening	Required headroom	Width of Opening	Required headroom
4'0"	16½"	8'0"	19½"	12'0"	22½"
4'4"	16¾"	8'4"	19¾"	12'4"	22¾"
4'8"	17"	8'8"	20"	12'8"	23"
5'0"	17¼"	9'0"	20¼"	13'0"	23¼"
5'4"	17½"	9'4"	20½"	13'4"	23½"
5'8"	17¾"	9'8"	20¾"	13'8"	23¾"
6'0"	18"	10'0"	21"	14'0"	24"
6'4"	18¼"	10'4"	21¼"	14'4"	24¼"
6'8"	18½"	10'8"	21½"	14'8"	24½"
7'0"	18¾"	11'0"	21¾"	15'0"	24¾"
7'4"	19"	11'4"	22"	15'4"	25"
7'8"	19¼"	11'8"	22¼"	15'8"	25¼"

sliding fire doors with level track

Single or double slide fire doors with standard level track require 14" headroom for any width opening. Special angle track single or double level slide doors require 11½" headroom for any width opening. Reverse hanger sliding type number 262 requires 7¾" headroom with track extending 4¾" below lintel. Swinging fire doors lap type numbers 350, 355, 366 and 375 require 8" headroom; flush type numbers 358, 360, 365, 370 and 380 require 4" headroom.

Operating Space Required

VERTICAL SLIDE—Height, Type Nos. 400 and 401 opening height doubled plus 21". Width, Type No. 400 (doors under 200 lbs.) 14" counterweight side, 7" other side; Type No. 401 (doors over 200 lbs.) 14" each side.

INCLINED SLIDE—One fuse link type numbers 250 and 258—opening width doubled plus 17". Two fuse link type numbers 252 and 254—opening width doubled, plus 19".

LEVEL SLIDE—Type numbers 255, 256, 260, 262 and 264—opening width doubled, plus 14".

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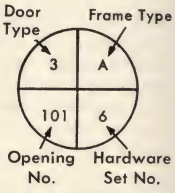
specifications

HOLLOW METAL WORK

1. **SCOPE**
   a. Provide hollow metal work required to complete work indicated on drawings in strict accordance with these specifications.
   b. See Door Schedule for sizes, location of openings and paragraphs below for required profiles, styles. Openings shown on plans: identified with the following Circular Code Symbol —
   c. Templates for all required hardware: furnished to the door manufacturer.



Code Symbol
(example only)

2. **STANDARD OF QUALITY**
   a. All work herein specified: equivalent to the standard details and quality of manufacture of Overly Manufacturing Company, Greensburg, Pa., Los Angeles 39, Calif.
   b. For profiles, details for door frames, door designs see Overly Sweet's Catalog, Section 16b/Ov, 1960 Edition, and drawings.

3. **WORK INCLUDED**
   a. **Hollow Metal Frames**
      (1) Provide hollow metal door frames with (transoms) (side lights) (borrowed light frames) for door openings indicated, complete with plaster key, Style No. ( ); profile, Style No. ( ); constructed of 18 (16) (14) (12) (10) gage steel.
      (2) Where indicated on drawings, provide rough bucks with (adjustable) (expansion shield) anchors constructed per Overly detail ( ), of 16 (14) (12) gage steel.
      (3) Where indicated on drawing, provide door frames with (insert here special construction features, indicated in Overly Catalog).
   b. **Hollow Metal Doors**
      (1) Provide (flush) (panel) design doors of 20 (18) (16) (14) (12) gage steel, with (panel inserts) (louvers) (lights) (designs) and sizes as indicated.
      (2) Provide narrow stile doors of 18 gage (cold rolled steel) (#302 stainless steel) in designs, sizes indicated.
   c. Labeled Doors, Frames—Provide Underwriter's Laboratories labels with fire resistant ratings of 3 hrs. for A label (1½ hrs. for B, D labels) (¾ hrs. for C, E labels) for openings indicated on Door Schedule.
   d. Kalamein doors (frames) (Tin Clad doors), labeled (non-labeled) construction provided per OVERLY standard details in sizes indicated for openings designated by drawings.

4. **WORK NOT INCLUDED**
   a. Unless otherwise specified, painting contractor shall touch-up prime shop coat, do finish painting.
   b. Glass, glazing: provided under section, Glass and Glazing.
   c. All hardware, thresholds, weatherstripping, channel or structural steel frames: provided, installed under other sections of these specifications.
   d. Door manufacturer shall not do drilling, tapping for surface applied hardware on doors and frames (such as door checks, brackets, transom hardware closers, push plates, etc.) or for floor type closers on hollow metal doors.
   e. Head Reinforcing: as provided by others under Miscellaneous Iron Section these specifications.

hollow metal specifications (cont'd)

5. **MATERIALS**
    a. Steel, in U.S. Standard gages herein specified: prime quality cold rolled, pickled, annealed stretcher leveled steel; free from scale, pitting, surface defects.
    b. Stainless steel (in U. S. Standard gages specified below): ASTM Designation A167, Grade 2 (Type 302).
    c. Soundproofing and fireproofing material for labeled and non-labeled doors: mineral wool to reduce metallic ring, act as insulator.

6. **SAMPLES**
    a. When required submit 6″ fabricated corner section of doors, frames herein specified.

7. **SHOP DRAWINGS**
    a. Submit for approval shop drawings for work herein specified before fabrication.

8. **FINISH**
    a. Cleaning—After assembly, clean thoroughly, removing all rust, scale, grease, oil, rough spots. Grind welds, joints smooth; fill flush with mineral filler to conceal seams.
    b. Pressed Steel Frames—Apply shop coat of approved rust inhibitive primer.
    c. Hollow Metal Doors—Apply two coats baked-on rust inhibitive primer. (Alternate—Apply baked-on mineral filler, one coat baked-on primer surfacer, two coats baked enamel finish in colors as selected by architect from Overly Color Chart.)
    d. Stainless Steel Doors, Frames: Overly OV-400 satin finish.

9. **WORKMANSHIP**
    a. All work: shop fabricated to required profiles by forming, welding; with arises, edges straight, sharp, unless coved or bull-nosed, etc. Fit, fabricate accurately with corners, hairline joints, surfaces free from warp, wave, buckle, other defects.
    b. Welding—Conform to applicable standards of American Welding Society for high grade hollow metal work, with exposed beads ground smooth.
    c. Filling—Mineral filler: used sparingly to conceal seams, not for hiding defects in fabrication.
    d. Hardware Reinforcement—Provide concealed reinforcement of sheet or bar steel to receive mortise type hardware; drill, tap to template requirements for field installation. Manufacturer shall not be required to drill or tap for surface applied hardware, closures, push plates, etc. Reinforcement shall include—
        3⁄16″ hinge plates—frames; 9 gage min.—doors.
        12 gage lock strike reinforcement.
        12 gage reinforcement for surface applied hardware.
        24 gage galvanized steel plaster guards at mortise hardware locations.
    e. Anchors—Provide framing with 16 gage anchors as required by wall conditions per Overly Part No. (   ).

10. **HOLLOW METAL FRAMES**
    a. Welded Unit Construction—Assemble frames in shop, weld corners, molds, returns, as required by shop drawings.
    b. Combination Frames—Furnish shop assembled and welded units for door frames with (transoms), (sidelights), (borrowed lights), complete with muntins, mullions, impost sections, fabricated to requirements of drawings, these specifications. Provide glazing stops, moldings for field assembly with countersunk oval head machine screws, not over 16″ on centers.
    c. Door Silencers—Prepare jamb rebates for rubber door silencers (provided by Hardware Supplier); locate, three for single doors, two for pairs of doors.
    d. Special Features—(Specify additional features such as, adjustable anchors, rock lath receiving clips, stainless steel spats, cut-off stop—hospital type, gaskets for lightproof or sound-retardent doors, extra reinforcement and lead lining for X-ray areas, adjustable ceiling struts, etc.)

11. **HOLLOW METAL DOORS**
    a. Doors constructed from two steel sheets (gages specified above) formed, welded for flush pan assembly; with internal reinforcement, consisting of 20 gage vertical channels, spaced not over 8″ on centers, extending vertically through full door height, uniformly spot welded to mated pans. Make doors free from metallic ring by providing filler materials specified above. Provide filler channels to close top of exterior doors flush for weatherproofing.
    b. Cut Outs—As required by door details provide openings for (panels) (glazing) (louvers) uniformly located. (Form panels of two 24 gage sheets cemented to composition board under pressure, with moldings welded into complete assembly; make moldings on one side removable.)
    c. Moldings—For open lights or panels, muntins, drawn from 20 gage galvannealed steel to stock design; miter corners, weld into integral frame; make one frame on inside of door removable, outside welded in place; attach removable frame with countersunk oval head machine screws, not over 16″ on centers.
    d. Louvers—per Overly Design, No. (   ); (stamped), (formed) construction. Location and size as indicated on drawings.
    e. Astragals—per Overly details, extending full door height, on active leaf of all exterior doors, consisting of (1¾″ by 12 gage strip for standard type) (14 gage sheet formed in "T" shape) (extruded weather seal with siliconized pile wipers).
    f. Special Features—(Enumerate special stile construction, automatic door bottoms, drip mold, other features indicated in Overly catalog.)

12. **(KALAMEIN) (TIN CLAD) DOORS (AND FRAMES)**
    a. Provide (flush) (panel) (non-label) (labeled) Kalamein doors (frames), constructed in accordance with established shop practice, in designs, sizes indicated on drawings.
    b. Provide Overly UL Labeled tin clad fire doors for openings indicated on Door Schedule, constructed per UL requirements for (Class A labeled fire doors—3-ply 2½″ thick) (Class B, C, D, or E labeled fire doors—2-ply 1¾″ thick or 3-ply 2½″ thick as required by size of opening). Equip doors with UL labeled hardware, Overly Set No. (   ), as enumerated in Overly Door & Frame Catalog, Section 16b/Ov, Sweet's 1960 Edition.

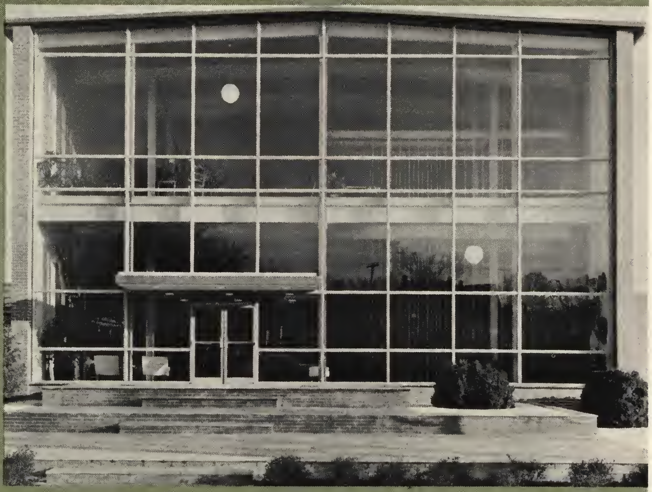
13. **STORAGE**
    a. Carefully store hollow metal work at site, in upright position, protected from elements on wood blocking, in a manner to prevent damage, marring of finish.

14. **ERECTION**
    a. General Contractor shall erect units in openings per architects plans, set to established lines, plumb and true, apply finish hardware.

● Overline Color Charts for Standard Baked Enamel Interior and Exterior (Colorclad) Finishes are available on request.

● NOTE: UL means Underwriters' Laboratories.
Use of colon (:) substitutes for words "shall be."

overly Overline TILT-A-FRONT



Showroom—Dixie Furniture Co., Lexington, N. C. Architects: Louis F. Voorhees and Eccles D. Everhart, High Point, N. C.

Factory office building—Overmeyer Mould Company, Greensburg, Pa. Architects: Sorber and Hoone, Greensburg, Pa.

Country club entrance and exterior—Bonnie View Country Club, Baltimore County, Md. Architect and Engineer: Bonnett and Brandt, Baltimore, Md.

Tilt-A-Front is a product of our unique background in both curtain wall building techniques and hollow metal production methods. The result is a new concept in window wall framing that eliminates costly trial-and-error field work, cuts erection time by 60% over conventional methods of wall framing.

what is Tilt-A-Front?

Tilt-A-Front is a factory assembled unit welded wall framing system that is shipped in as large sections as can be accommodated by job site conditions and available transport. As its name implies, Tilt-A-Front tilts into place as simply, as quickly as a ladder. Because it's entirely pre-engineered, it fits like a glove.

Unit welding makes Tilt-A-Front an exceptionally rigid, structurally sound construction that does away with leakage and settling problems. And its clean, thin line appearance is contemporary in every sense of the word; requires none of the usual exposed plate reinforcements, angles or stiffeners found in conventional store front construction. Nor does it depend, in any way, on plate glass for its rigidity—glass is never under stress or tension.

An excellent example of Tilt-A-Front construction is the showroom office of Dixie Furniture Company, Lexington, North Carolina. Units for this building, enclosing an opening 50′ wide x 30′ high, were shipped in full height sections. The intermediate horizontal members in four of the sections were shipped knocked down. Erector simply tilted and hoisted the welded units into place, secured them, then finished up by bolting in the horizontal members at a very low installed cost per square foot.

typical Tilt-A-Front applications

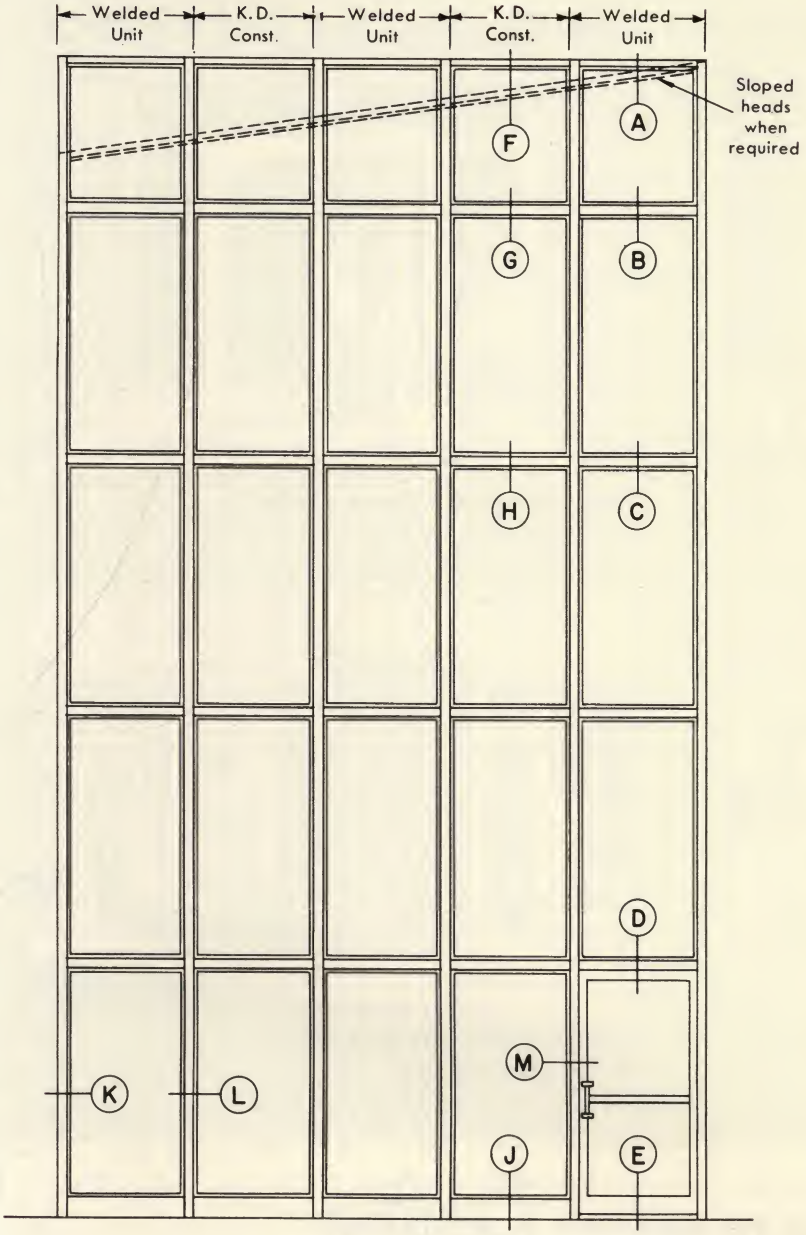
The Tilt-A-Front system is applicable to either interior or exterior use for schools, contemporary churches, small office buildings, small hospitals and clinics, drug stores and supermarkets, pre-engineered buildings, showrooms, laboratory and research buildings, etc., or for any one to three story building.

how to utilize and specify the Tilt-A-Front system

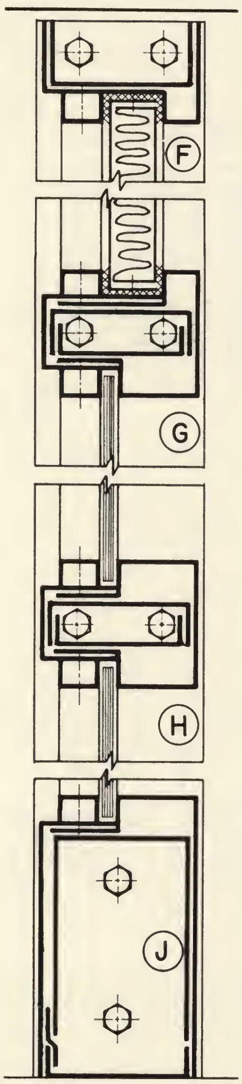
Tilt-A-Front is a system, rather than a standard product. Each installation should be considered custom. Overly will take your particular wall framing design and convert it into detailed sections and elevations that conform to the Tilt-A-Front system.

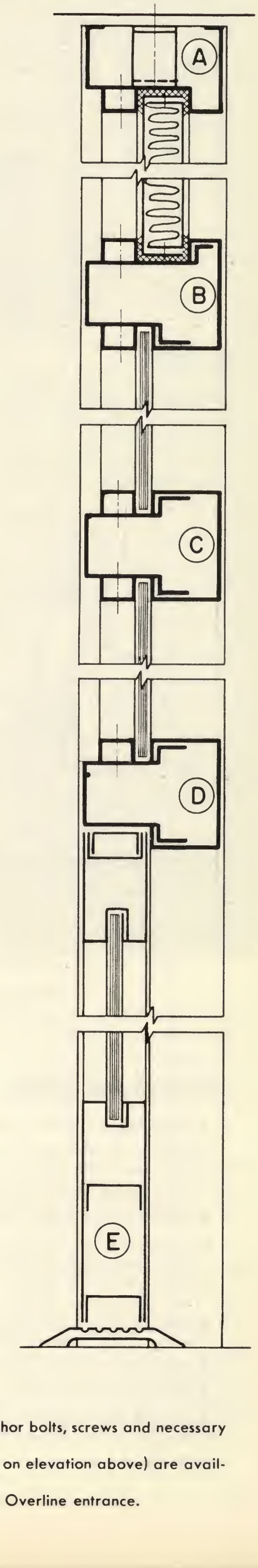
Tilt-A-Front may be specified with Overline entrances in carbon or galvanized bonderized steel, with prime or baked enamel (Colorclad) steel, stainless steel. Material should be specified to be shipped in prefabricated erection units; sections to be tilted and secured together at job site. Sash or panels may be furnished if required, and Tilt-A-Front units can be designed to receive any conventional window, porcelain or aluminum panel. Glass and glazing should be specified separately.

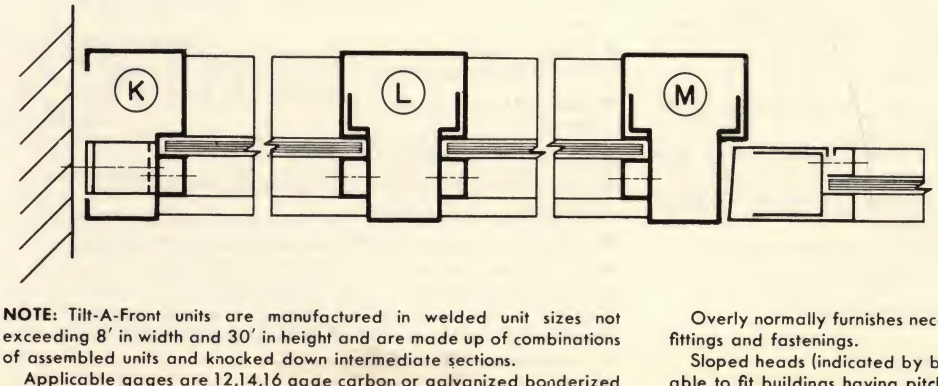
DO NOT SCALE



key elevation







NOTE: Tilt-A-Front units are manufactured in welded unit sizes not exceeding 8′ in width and 30′ in height and are made up of combinations of assembled units and knocked down intermediate sections.

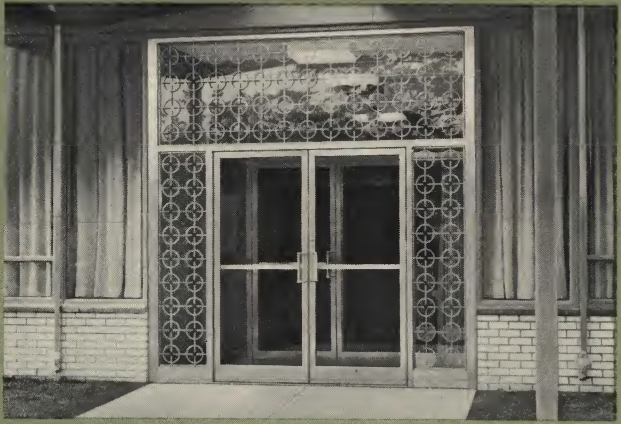
Applicable gages are 12,14,16 gage carbon or galvanized bonderized steel, finished prime or with Colorclad enamel finishes, or in stainless steel.

Overly normally furnishes necessary anchor bolts, screws and necessary fittings and fastenings.

Sloped heads (indicated by broken line on elevation above) are available to fit buildings having pitched roofs.

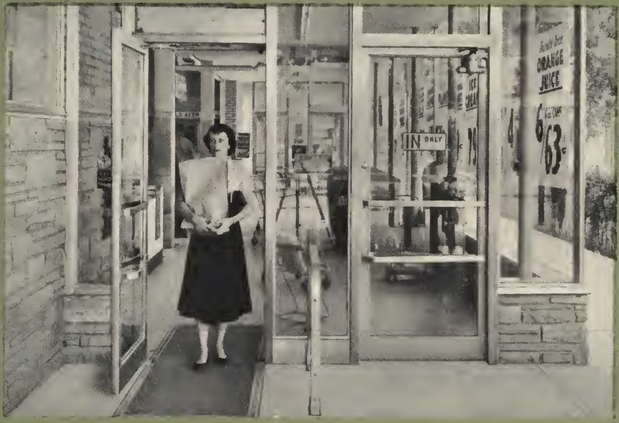
Entrance door shown on elevation is an Overline entrance.

Overline Stainless Steel Entrances



Crucible Steel Warehouse Office, Solon, Ohio

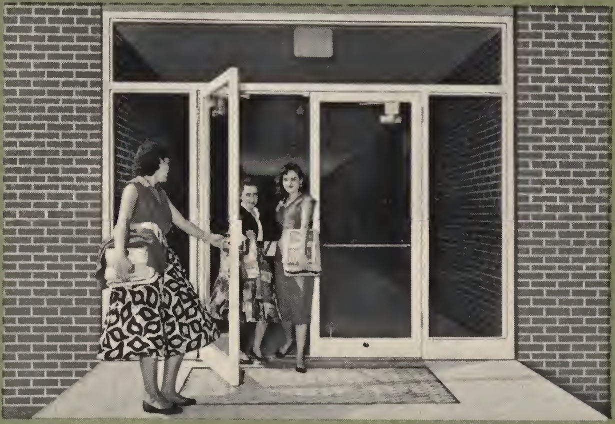
Architects: Fulmer & Bowers, Princeton, N. J.



Co-Op Supermarket, Greenbelt, Md.

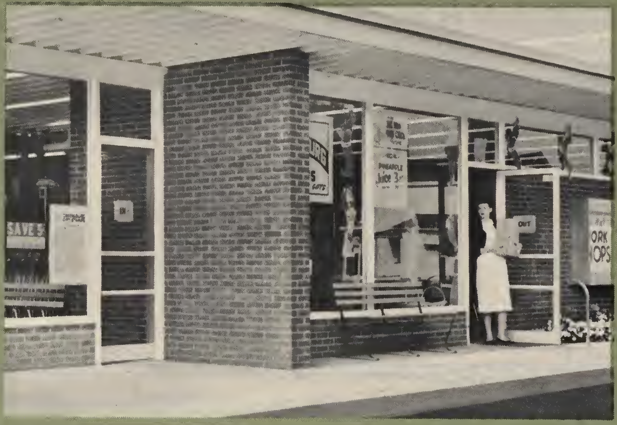
Architect: William T. Bateman, Greenbelt, Md.

Overline Colorclad Steel Entrances



Meadowlawn Junior High, St. Petersburg, Fla.

Architect: Glenn Quincy Johnson, St. Petersburg, Fla.



Davis Supermarket, Greensburg, Pa.

Architects: Moyer & Walfish, Greensburg, Pa.

why it pays to specify Overline®

stainless steel

- Economical to own—remains maintenance-free.
- Double the strength of softer metal doors.
- Exclusive OV-400 finish retains its satin luster indefinitely; harmonizes with any building exterior.
- Withstands roughest, high-traffic abuse.
- Premium Type 302 (18-8) stainless used throughout—no wood nor carbon steel internal construction.
- Unit welded, tubular construction with internal girder type reinforcing. All external welds ground smooth and polished.
- Double-ply top and bottom rails provide strength to withstand whip action of automatic door operators.
- Integrally formed glass stop eliminates exposed screws.
- Matching stainless steel hardware, furnished installed.
- Custom entrances fabricated to any special design.
- Available with Fing-R-Gard.
- Backed by a written 10-YEAR WARRANTY.

colorclad*

- Budget priced.
- Wide choice of compatible colors** harmonize with any building material.
- Factory baked-on enamel finishes, comparable to finest appliance finishes, stay bright . . . new looking for years.
- Engineered for endurance—withstands years of heavy traffic abuse.
- Tubular construction of furniture grade steel.
- Unit welded, with girder type internal reinforcing.
- Double-ply top and bottom rails.
- Continuous channel reinforcement full length of door.
- All exposed welds ground smooth and finished.
- Greater strength than softer metal doors.
- Custom entrances fabricated to any special design.
- Available with Fing-R-Gard.

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*Color charts are available upon request.

**Any non-standard color will be matched upon submission of sample. This entails an additional charge and may occasion a slight delay in delivery.

specifications

Overline® entrances

1. scope

(a) Provide narrow stile entrance doors, frames, transoms, sidelights, related items to complete work indicated on drawings and/or specified herein.

(b) See DRAWINGS, DOOR SCHEDULE for sizes, locations of openings; see paragraphs below for required profiles, styles.

2. standard of quality

(a) Work herein specified: manufactured to quality standards of Overly Manufacturing Company, Greensburg, Pa.; Los Angeles, Calif.

3. work included

(a) Provide Overline stainless steel entrance assemblies conforming to following basic unit designs—

Door Designation *Overly Unit No.*
(List Requirements)

(b) Provide Overline Colorclad steel entrance assemblies conforming to following basic unit design—

Door Designation *Overly Unit No.*
(List Requirements)

(c) Provide entrances with following matched finish hardware sets—(See Overline Hardware List, 16a/Ov, Sweet's Catalog, 1959).

Door Designation *Overly Hardware Set No.*
(List Requirements)

(d) Provide (doors on center pivoted closers) (Door Designation No.) with Overly Fing-R-Gard (Vinyl guard and weather seal which gives positive protection against finger crushing) installed on pairs of doors at factory.

(e) Provide all other meeting stiles on pairs of doors with integral pile edge weatherstripping.

4. work not included

(a) Glass, glazing: these items provided under Glass and Glazing Section of these specifications.

(b) Automatic Door Operators: furnished by others.

5. materials

(a) Steel (in U. S. Standard gages specified below): high quality, cold rolled, pickled, annealed stretcher leveled furniture grade prime steel; free from scale, pitting, surface defects.

(b) Stainless steel (in U. S. Standard gages specified below) shall conform to ASTM Designation A167, Grade 2 (Type 302).

(c) Screws, nuts, washers, other miscellaneous fastening devices on stainless steel assemblies: Type 302 stainless steel; otherwise steel fastenings may be used.

6. samples

(a) Submit (when required) 6 inch corner section of doors, frame, trim herein specified.

7. shop drawings

(a) Before executing any of work specified, submit complete shop drawings for approval.

8. finish

(a) Overline Colorclad Finish (required for Colorclad steel entrances)—After assembly clean thoroughly, grind welds, joints smooth; apply full-bodied coat of baked-on mineral filler, one coat baked-on primer surfacer, followed by two coats baked enamel Colorclad finish selected from Overly Colorclad Color Chart.

(b) Overline Stainless Steel Finish (required for all-stainless steel entrances)—Overly OV400 satin finish: provided for exposed surfaces.

9. workmanship

(a) General—Shapes: formed with clearly defined profiles, free from twists or warping; corners: accurately joined, fitted to flush hairline; joints, welded along concealed lines of contact. Welding shall conform to best practice, thoroughly penetrating material.

(b) Frames—Door, transom, sidelight frames: factory fabricated, head corners mitered, of 16 gage material and shall conform to sections detailed on drawings.

(c) Doors—Fabricate from tubular sections or form to sections, as detailed on drawings, from 18 gage material. Fit door stiles, rails to a flush welded joint.

(d) Glazing Stops—Assemble stops, mouldings of 20 gage steel on room side, with welded corners; fasten with countersunk oval screws, 16" maximum spacing. Integrally form exterior-side stop as part of top, bottom rails.

(e) Mullions, Transom Bars—Fabricate from tubular sections with integrally formed rebates for glass stop, doors, transom sash. Fasten at crossings to jambs by welding or concealed clip angles of 11 gage formed steel.

(f) Hardware Fitting—Provide all necessary cutouts, recesses, mortising required for finish hardware, formed accurately to template, reinforced with 3/16 inch reinforcement plates to insure adequate strength in connection.

(g) Internal Reinforcement—Wood or carbon steel internal reinforcement shall not be acceptable with all-stainless steel entrances.

(h) Weatherstripping—Centrally pivoted type doors: fully weatherstripped at jamb stiles, mullion, or meeting stiles with a metal extrusion, nylon pile wiping insert.

Pairs of offset pivoted, or butt hinged doors shall have metal extrusion and nylon pile weatherstripping insert only at meeting stiles.

10. hardware

(a) Finish hardware for entrances: furnished by Overly; installed at site by General Contractor.

(b) Finish of hardware: (dull bronze) (aluminum) (dull chrome) (stainless steel).

(c) Hardware items: Set Nos. enumerated in Overline Hardware List, Sect. 16a/Ov, Sweet's Catalog, 1959.

11. warranty (Stainless Steel Entrances)

(a) Each Overline stainless steel door, frame: guaranteed to original purchaser to be free from defects in material, workmanship under normal use, service for a period of ten (10) years from time of installation; this in accordance with terms stated in Overly Manufacturing Company's 10-year Warranty.

12. erection

(a) General Contractor shall install entrances at indicated elevation and plane in prepared openings, set plumb, square, level, securely anchored to adjoining construction.

(b) Caulk joints between metal, masonry with approved type caulking compound; neatly point, remove excess material.

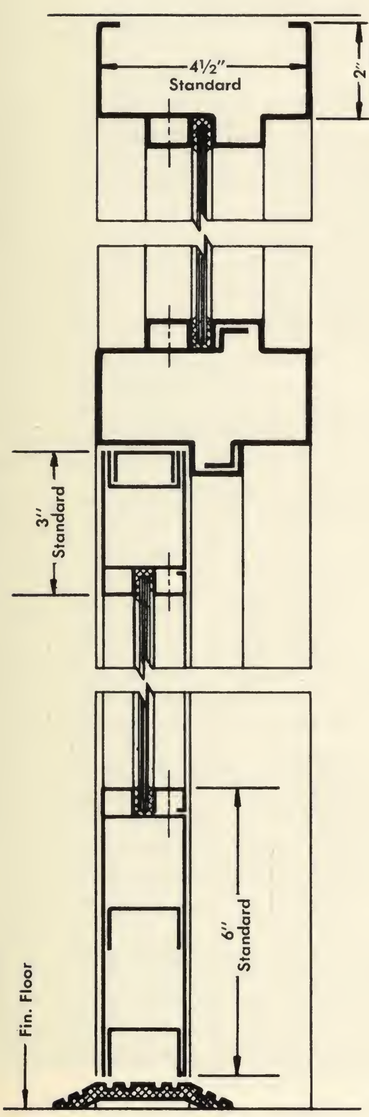
(c) After erection, glazing, General Contractor shall check, readjust (as required) items of operating hardware.

(d) Adequately protect exposed portions of doors, frames, other members from damage. Before completion of project, General Contractor shall touch-up abrasions to Colorclad Entrances from matching Colorclad finish supplied by Overly.

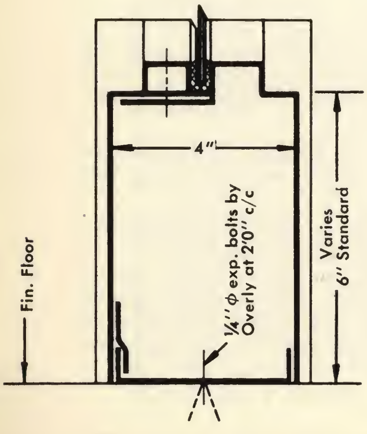
NOTE: Use of colon (:) substitutes for words "shall be."

• We reserve the right to change the above specifications without notice.

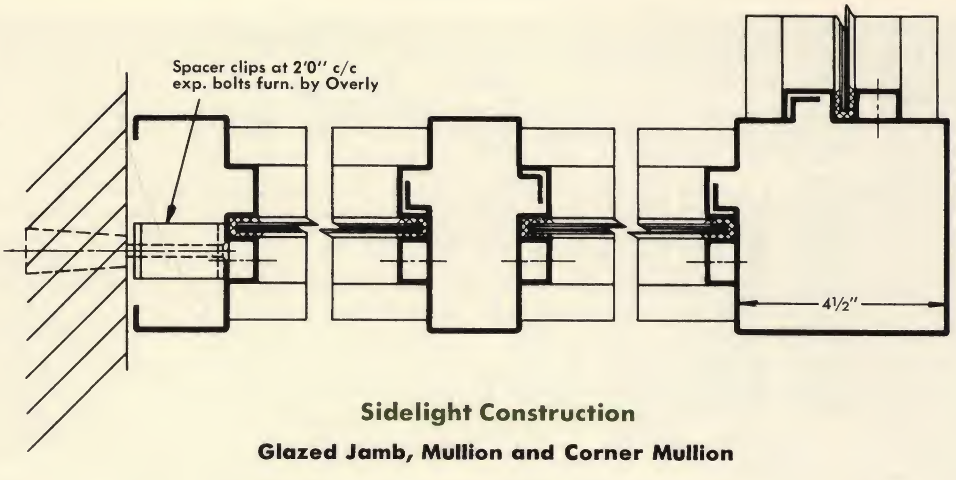
SCALE: 3" = 1'-0"



Head, Transom Bar, Top and Bottom Rails

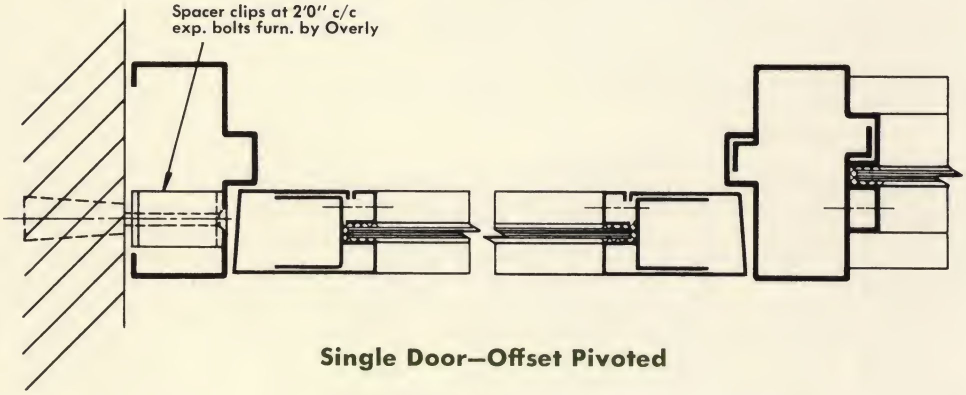


Glazed Sill



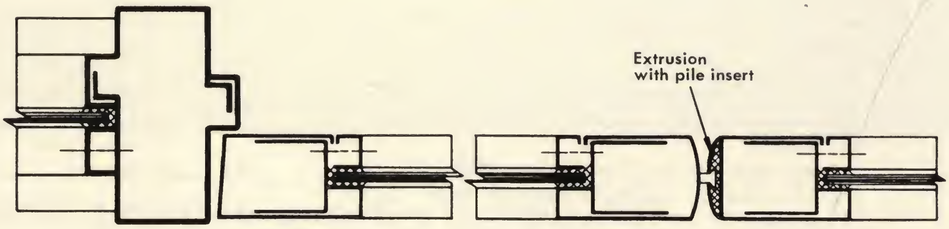
Sidelight Construction

Glazed Jamb, Mullion and Corner Mullion



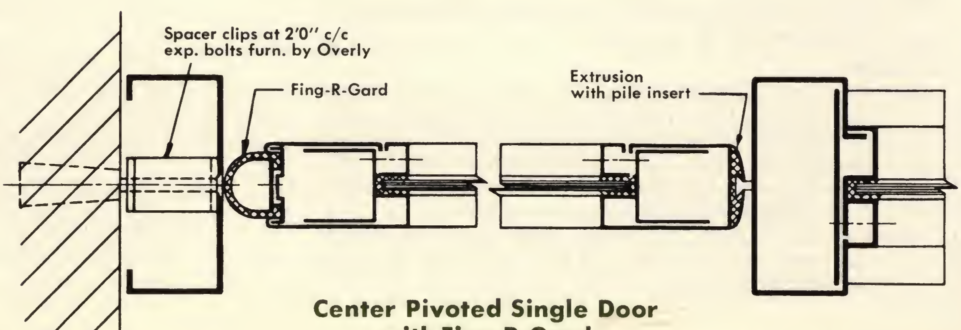
Single Door—Offset Pivoted

Jamb, Mullion and Stiles



Pair Doors—Offset Pivoted or Butt Hung

Mullion, Hinge Stiles and Meeting Stiles

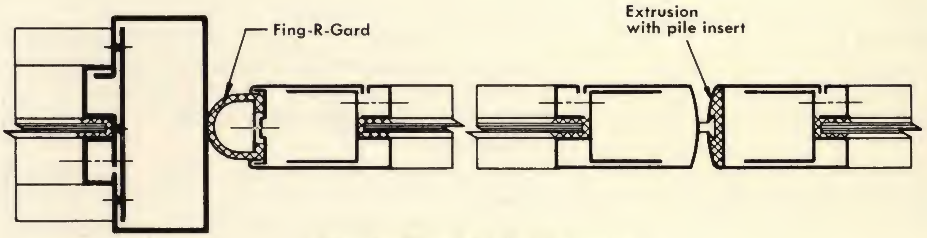

Spacer clips at 2'0" c/c exp. bolts furn. by Overly
Fing-R-Gard
Extrusion with pile insert

Center Pivoted Single Door with Fing-R-Gard

Jamb, Mullion and Stiles

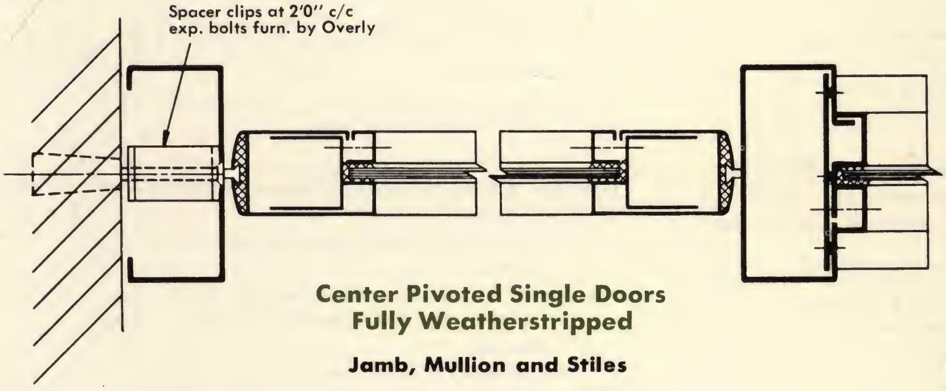
Overline entrance | typical details

SCALE: 3" = 1'-0"



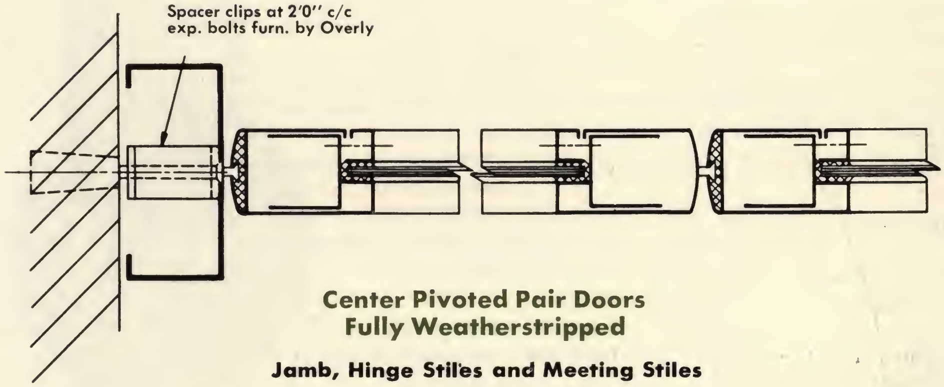
Center Pivoted Pair Doors with Fing-R-Gard

Mullion, Hinge Stiles and Meeting Stiles



Center Pivoted Single Doors Fully Weatherstripped

Jamb, Mullion and Stiles

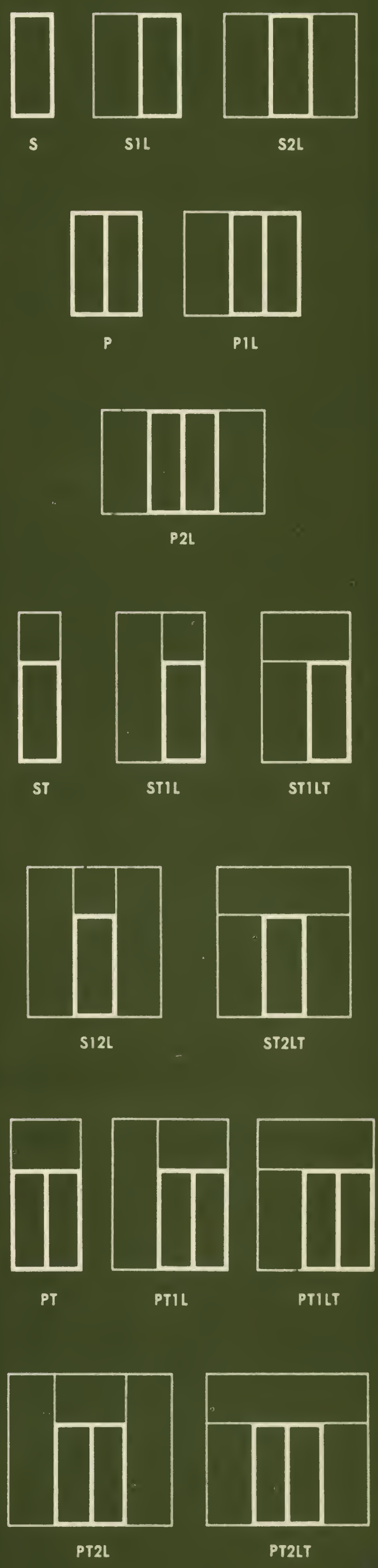


Center Pivoted Pair Doors Fully Weatherstripped

Jamb, Hinge Stiles and Meeting Stiles

NOTE: Where knockdown construction is required, suitable anchoring, fastening and reinforcements are provided.

typical units



type AS*†† (single swing on hinges—surface closer)
1 Deadlock 120-562-¾ x US26D x bev. front
1½ Pair butts 120-TB2314-½—CD 4½" x 4½"
1 Closer
(120-23 x SB for doors up to 3'0" wide)
(120-24 x SB for doors over 3'0" wide)
1 Bracket (req. for reverse bevel doors only)
(120-B893 x SB for use with closer 120-23)
(120-C894 x SB for use with closer 120-24)
2 Bars (1 push—1 pull) Stainless Steel
1 Threshold 120-37-4 x Alum.

type AP**†† RHRB ACTIVE (pair swing on hinges—surface closers)
1 Deadlock 120-562-¾ x US26D x rad. front
3 Pair butts 120-TB2314-½—CD 4½" x 4½"
2 Flush Bolts 120-257-12" x US26D x rad. front
2 Closers
[120-23 x SB (for doors up to 3'0" wide—each leaf)]
[120-24 x SB (for doors over 3'0" wide—each leaf)]
2 Brackets (req. for reverse bevel doors only)
(120-B893 x SB for use with closer 120-23)
(120-C894 x SB for use with closer 120-24)
4 Bars (2 push—2 pull) Stainless Steel
1 Threshold 120-478 x Alum. with stop strip

type BS*† (single swing on offset pivoted floor check)
1 Deadlock 120-562-¾ x US26D x bev. front
1 Floor check
(120-20 x US26D for interior doors not over 3'6" wide, reverse bevel entrance and vestibule doors not over 2'10" wide and regular hand entrance and vestibule doors not over 2'6" wide)
(120-25 x US26D for interior doors not over 4'0" wide and entrance and vestibule doors not over 3'6" wide)
1 Intermediate pivot 120-M19 x US26D
2 Bars (1 push—1 pull) Stainless Steel
1 Threshold 120-5 x 400 x Alum.

type BP**† (pair swing on offset pivoted floor checks)
1 Deadlock 120-562-¾ x US26D x rad. front
2 Floor Checks
(120-20 x US26D for interior doors not over 3'6" wide, reverse bevel entrance and vestibule doors not over 2'10" wide and regular hand entrance and vestibule doors not over 2'6" wide)
(120-25 x US26D for interior doors not over 4'0" wide and and entrance and vestibule doors not over 3'6" wide)
2 Intermediate pivots 120-M19 x US26D
2 Flush Bolts 120-257-12" x US26D x rad. front
4 Bars (2 push—2 pull) Stainless Steel
1 Threshold 120-5 x 400 x 200 stop strip x Alum.

type BCS*† (single swing on center pivoted floor checks)
1 Deadlock 120-562-¾ x US26D x rad. front
1 Floor check
(120-21 x US26D for reverse bevel entrance and vestibule doors not over 2'10" wide and regular hand entrance doors not over 2'6" wide)
(120-26 x US26D for interior doors not over 4'0" wide and entrance and vestibule doors not over 3'6" wide)
2 Bars (1 push—1 pull) Stainless Steel
1 Threshold
(120-1 x 600 x Alum. for 120-21 floor check)
(120-1 x 700 x Alum. for 120-26 floor check)

type BCP**† (pair swing on center pivoted floor checks)
1 Deadlock 120-562-¾ x US26D x rad. front
2 Floor Checks
(120-21 x US26D for reverse bevel entrance and vestibule doors not over 2'10" wide and regular hand entrance doors not over 2'6" wide)
(120-26 x US26D for interior doors not over 4'0" wide and entrance and vestibule doors not over 3'6" wide)
2 Flush bolts 120-257-12" x US26D x rad. front
4 Bars (2 push—2 pull) Stainless Steel
1 Threshold
(120-1 x 600 x 200 stop strip x Alum. for 120-21 floor check)
(120-1 x 700 x 200 stop strip x Alum. for 120-26 floor check)

type BCS* automatic (single swing with automatic floor operator)
1 Deadlock 120-562-¾ x US26D x rad. front
1 Automatic floor operator (by others) less top pivot
1 Top pivot 120-40 x US26D
1 Push bar Stainless Steel

type BCP** automatic (pair swing with automatic floor operator)
1 Deadlock 120-562-¾ x US26D x rad. front
2 Automatic floor operators (by others) less top pivots
2 Top pivots 120-40 x US26D
2 Flush bolts 120-257-12" x US26D x rad. front
2 Push bars Stainless Steel

type ASE (single swing on hinges and surface closer—reverse bevel with concealed exit device)
1½ Pair butts 120-TB2314-½—CD 4½" x 4½"
1 Closer
(120-23 x SB for doors up to 3'0" wide)
(120-24 x SB for doors over 3'0" wide)
1 Bracket
(120-B893 x SB for use with closer 120-23)
(120-C894 x SB for use with closer 120-24)
1 Threshold 120-37-4 x Alum.
1 Concealed exit device 120-61C x AR258 x US26D

type APE (pair swing on hinges and surface closers—reverse bevel with concealed exit device)
3 Pair butts 120-TB2314-½—CD 4½" x 4½"
2 Closers
(120-23 x SB for doors up to 3'0" wide)
(120-24 x SB for doors over 3'0" wide)
2 Brackets
(120-B893 x SB for use with closer 120-23)
(120-C894 x SB for use with closer 120-24)
1 Threshold 120-478 x Alum.
1 Concealed exit device 120-60CDT x 61C x AR258 x US26D

type BSE (single swing on offset pivoted floor check—reverse bevel with concealed exit device)
1 Floor check
(120-20 x US26D for reverse bevel entrance and vestibule doors not over 2'10" wide)
(120-25 x US26D for interior doors not over 4'0" wide and entrance and vestibule doors not over 3'6" wide)
1 Intermediate Pivot 120-M19 x US26D
1 Threshold 120-5 x 400 x Alum.
1 Concealed exit device 120-61C x AR258 x US26D

type BPE (pair swing on offset pivoted floor checks—reverse bevel with concealed exit device)

- 2 Floor checks
  (120-20 x US26D for reverse bevel entrance and vestibule doors not over 2'10" wide)
  (120-25 x US26D for interior doors not over 4'0" wide and entrance and vestibule doors not over 3'6" wide)
- 2 Intermediate pivots 120-M19 x US26D
- 1 Threshold 120-5 x 400 x 200 stop strip x Alum.
- 1 Concealed exit device 120-60CDT x 61C x AR258 x US26D

type BCSE (single swing on center pivoted floor check—reverse bevel with concealed exit device)

- 1 Floor check
  (120-21 x US26D for reverse bevel entrance and vestibule doors not over 2'10" wide)
  (120-25 x US26D for interior doors not over 4'0" wide and entrance and vestibule doors not over 3'6" wide)
- 1 Threshold
  (120-1 x 600 x Alum. for 120-21 floor check)
  (120-1 x 700 x Alum. for 120-26 floor check)
- 1 Concealed exit device 120-61C x AR258 x US26D

type BCPE (pair swing on center pivoted floor checks—reverse bevel with concealed exit device)

- 2 Floor checks
  (120-21 x US26D for reverse bevel entrance and vestibule doors not over 2'10" wide)
  (120-26 x US26D for interior doors not over 4'0" wide and entrance and vestibule doors not over 3'6" wide)
- 1 Threshold
  (120-1 x 600 x Alum. for 120-21 floor check)
  (120-1 x 700 x Alum. for 120-26 floor check)
- 1 Concealed exit device 120-60CDT x 61C x AR258 x US26D

type DAS**† (double acting on center pivoted floor check)

- 1 Deadlock 120-562-¾ x US26D x rad. front
- 1 Floor check
  (120-30 x US26D for interior doors not over 3'6" wide and entrance and vestibule doors not over 2'10" wide)
  120-40 x US26D for all doors over 2'10" wide
- 2 Push bars x Stainless Steel
- 1 Threshold
  (120-1 x 600 x Alum. for 120-30 floor check)
  (120-1 x 700 x Alum. for 120-40 floor check)

type DAP***† (double acting pair on center pivoted floor checks)

- 1 Deadlock 120-562-¾ x US26D x rad. front
- 2 Floor checks
  (120-30 x US26D for interior doors not over 3'6" wide and entrance and vestibule doors not over 2'10" wide)
  (120-40 x US26D for all doors over 2'10" wide)
- 2 Flush bolt 120-257-12" x US26D x rad. front
- 4 Push bars x Stainless Steel
- 1 Threshold
  (120-1 x 600 x Alum. for 120-30 floor check)
  (120-1 x 700 x Alum. for 120-40 floor check)

NOTE—Add the following when doors are installed in supermarkets where food carts are used:
*2 Cart bars 120-206P x stainless steel.
**4 Cart bars 120-206P x stainless steel.
***8 Cart bars 120-206P x stainless steel.
†NOTE: Floor closer available with hold open feature.
††NOTE: Surface closer available with hold open feature.

CODE TO OVERLINE ENTRANCE HARDWARE SETS

A —Any single swing door hung on butts with surface closers
B —Any single swing door with offset pivoted floor checks
C —Any single swing door with center pivoted floor checks
DA—Double acting
S —Single doors
P —Pairs of doors
E —Any door also equipped with concealed panic exit devices

new Fing-R-Gard®* . . . positive protection against finger-crushing

Finger-maiming accidents are increasing at an alarming rate wherever center pivoted automatic doors are installed—doors that create a hand sized opening between stile and jamb each time they are operated.

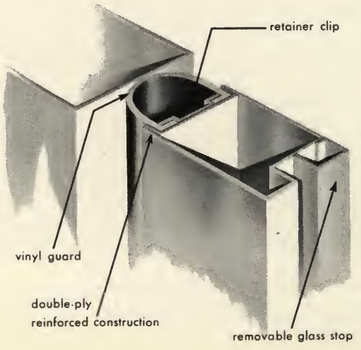
Overline's new Fing-R-Gard now offers a positive solution to this common problem. Its continuous, all-vinyl edge cushions the crushing pincers action of door stile against frame, while providing an efficient compensating weather seal.

Fing-R-Gard** has been Overly engineered as an integral part of the door—no exposed screws, moving parts or moldings mar the door's trim appearance. And its unique construction prevents it from being loosened or torn off in normal usage.

The guard's wear-resistant vinyl edge remains flexible at all normal temperatures, and is impervious to soaps and acids.

Fing-R-Gard—an exclusive Overline feature—is now available on Overline all stainless, and Colorclad doors.

x-section through Overline jamb stile.



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*Applicable to doors on center pivots only. **Fing-R-Gard: patent pending.

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DOORS, FRAMES AND ENTRANCES

72 Years
of Progress
1888—1960

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Overly Manufacturing Company

Greensburg, Pennsylvania
Phone: Temple 4-7300

Los Angeles 39, California
Phone: Normandy 3-8161

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